DENON

AM-FM STEREO RECEIVER

DRA-297

OPERATING INSTRUCTIONS

MODE D'EMPLOI

❑SAFETY PRECAUTIONS

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

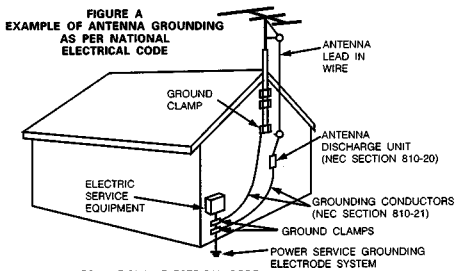
WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

SAFETY INSTRUCTIONS

1. Read Instructions – All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions – The safety and operating instructions should be retained for future reference.
3. Heed Warnings – All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions – All operating and use instructions should be followed.
5. Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
6. Attachments – Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Water and Moisture – Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
8. Accessories – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

9. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
10. Ventilation – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
11. Power Sources – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
12. Grounding or Polarization – This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

FIGURE A
EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

NEC - NATIONAL ELECTRICAL CODE

13. Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
14. Outdoor Antenna Grounding – If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
15. Lightning – For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
16. Power Lines – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
17. Overloading – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
18. Object and Liquid Entry – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
19. Servicing – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
20. Damage Requiring Service – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    a) When the power-supply cord or plug is damaged,
    b) If liquid has been spilled, or objects have fallen into the product,
    c) If the product has been exposed to rain or water,
    d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
    e) If the product has been dropped or damaged in any way, and
    f) When the product exhibits a distinct change in performance – this indicates a need for service.
21. Replacement Parts – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
22. Safety Check – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
23. Wall or Ceiling Mounting – The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
24. Heat – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

FCC INFORMATION (For US customers)

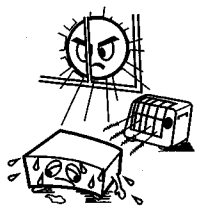
1. PRODUCT
This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation.

2. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT
This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by DENON may void your authority, granted by the FCC, to use the product.

3. NOTE
This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help.

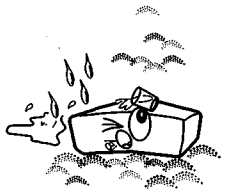
This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

❑NOTE ON USE / OBSERVATIONS RELATIVES A L'UTILISATION



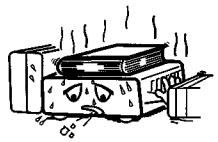
- Avoid high temperatures.
  Allow for sufficient heat dispersion when installed in a rack.
- Eviter des températures élevées
  Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère.

- Handle the power cord carefully.
  Hold the plug when unplugging the cord.
- Manipuler le cordon d'alimentation avec précaution.
  Tenir la prise lors du débranchement du cordon.



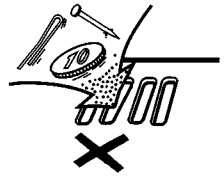
- Keep the apparatus free from moisture, water, and dust.
- Protéger l'appareil contre l'humidité, l'eau et lapoussière.

- Unplug the power cord when not using the apparatus for long periods of time.
- Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.

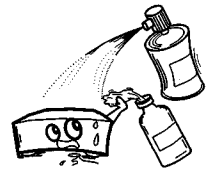


* (For apparatuses with ventilation holes)

- Do not obstruct the ventilation holes.
- Ne pas obstruer les trous d'aération.



- Do not let foreign objects into the apparatus.
- Ne pas laisser des objets étrangers dans l'appareil.



- Do not let insecticides, benzene, and thinner come in contact with the apparatus.
- Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil.

- Never disassemble or modify the apparatus in any way.
- Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.

Thank you for choosing the DENON DRA-297 AM-FM Stereo Receiver. This remarkable component has been engineered to provide outstanding high fidelity reproduction of your favorite music sources.
As this product is provided with an immense array of features, we recommend that before you begin hookup and operation that you review the contents of this manual before proceeding.

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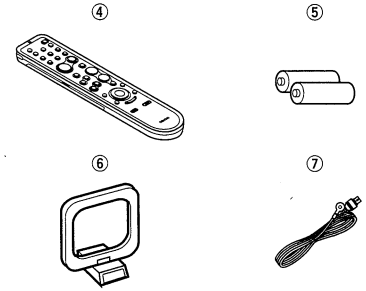
Getting Started

Accessories

Check that the following parts are attached in addition to the main unit:

① Operating instructions 1
② Warranty (for North America model only) 1
③ Service station list 1
④ Remote control unit (RC-1053) 1
⑤ R6P/AA batteries 2
⑥ AM loop antenna 1
⑦ FM indoor antenna 1



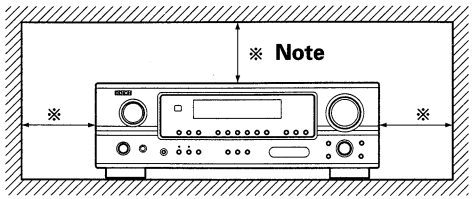
Before using

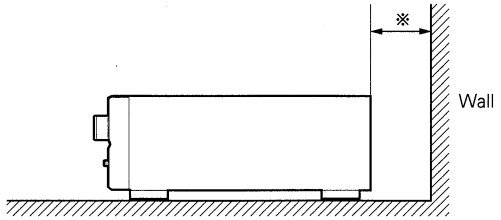
Pay attention to the following before using this unit:

- **Moving the unit.**
  To prevent short-circuits or damaged wires in the connection cables, always unplug the power supply cord and disconnect the connection cables between all other audio components when moving the unit.
- **Cautions on using mobile phones.**
  Using a mobile phone near this unit may result in noise. If so, move the mobile phone away from this unit when it is in use.
- **Before turning the power operation button on.**
  Check once again that all connections are correct and that there are not problems with the connection cables. Always set the power operation button to the standby position before connecting and disconnecting connection cables.
- **Store the operating instructions in a safe place.**
  After reading the operating instructions, store them in a safe place as they could come in handy in the future.
- **Whenever the power operation button is in the STANDBY state, the unit is still connected to AC line voltage.**
  Please be sure to turn off the power operation button or unplug the cord when you leave home for, say, a vacation.
- **Note that the illustrations in these instructions may differ from the actual unit for explanation purposes.**

Cautions on installation

Note:
For heat dispersal, do not install this unit in a confined space such as a bookcase or similar enclosure.





About the remote control unit

In addition to controlling the DRA-297, the attached remote control unit (RC-1053) can also be used to control the following products:

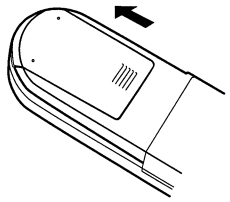
① DENON component products

② Component products other than DENON:

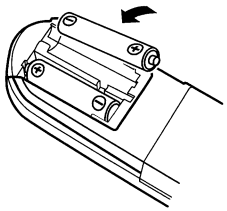
- Set using the preset memory function (☞ page 23).

Inserting the batteries

① Remove the remote control unit's rear cover.



② Set two R6P/AA batteries in the battery compartment in the indicated direction.



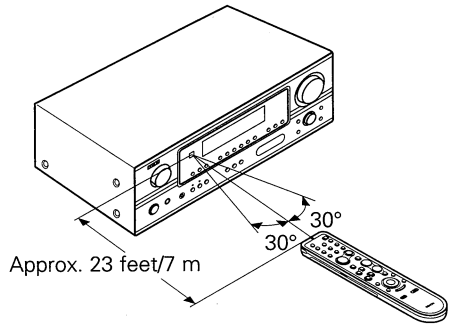
③ Put the rear cover back on.

Notes on batteries:

- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated nearby the unit. (The attached batteries are only for verifying operation.)
- When inserting the batteries, be sure to do so in the proper direction, following the "⊕" and "⊖" marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
  - Do not use a new battery together with an old one.
  - Do not use two different types of batteries.
  - Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- Remove the batteries from the remote if it will not be in use for long periods.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- When replacing the batteries, have the new batteries ready and insert them as quickly as possible.

Operating range of the remote control unit

- Point the remote control unit at the remote sensor when operating it.
- The remote control unit can be used from a distance of approximately 23 feet/7 meters, at a horizontal angle of up to 30° with respect to the sensor.



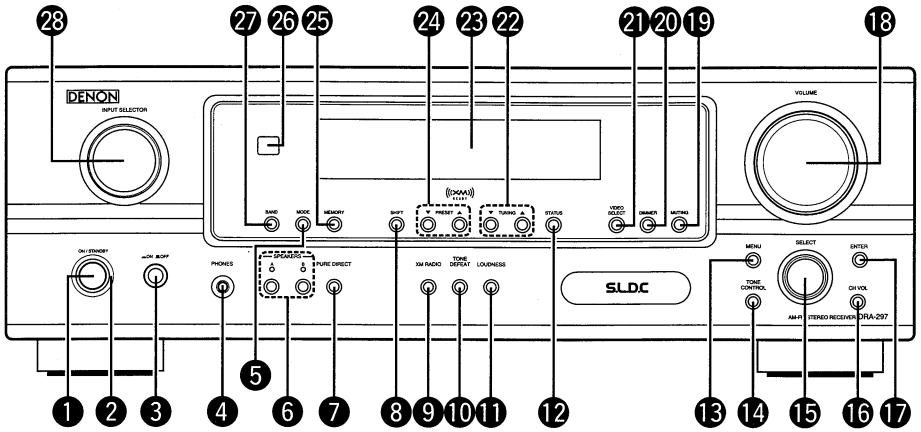
NOTE:

- It may be difficult to operate the remote control unit if the remote sensor is exposed to direct sunlight or strong artificial light.

Part names and functions

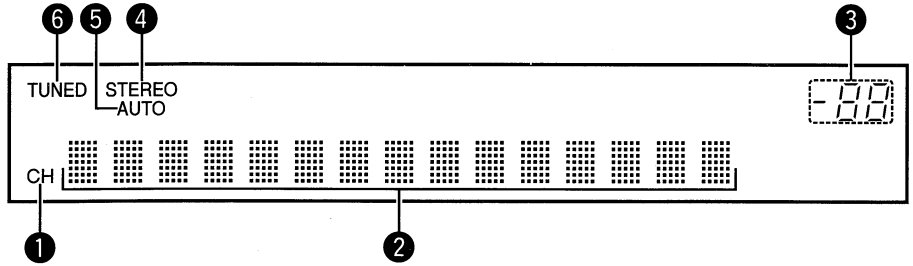
For details on the functions of these parts, refer to the pages given in parentheses ( ).

Front panel



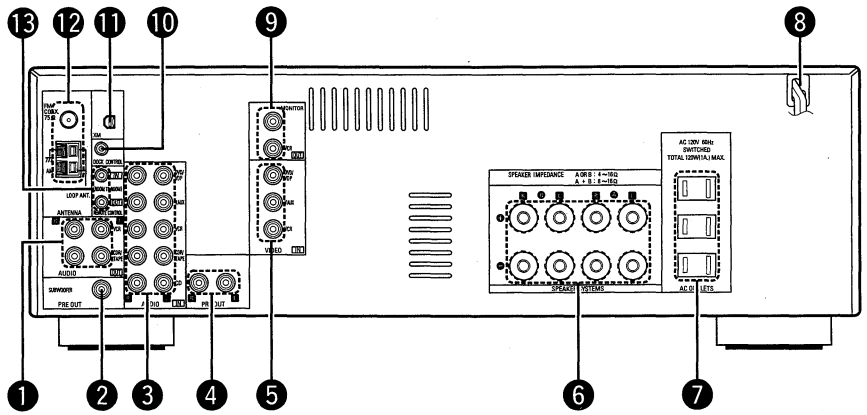
- ❶ **Power operation button (ON/STANDBY)** ....(12)
- ❷ **Power indicator** ....(12)
- ❸ **Power switch** ....(12, 18)
- ❹ **Headphones jack (PHONES)** ....(12)
- ❺ **MODE button** ....(14, 18)
- ❻ **SPEAKER buttons** ....(12)
- ❼ **PURE DIRECT button** ....(13)
- ❽ **SHIFT button** ....(14)
- ❾ **XM RADIO button** ....(16)
- ❿ **TONE DEFEAT button** ....(13)
- ⓫ **LOUDNESS button** ....(13)
- ⓬ **STATUS button** ....(13)
- ⓭ **MENU button** ....(16, 17)
- ⓮ **TONE CONTROL button** ....(13)
- ⓯ **SELECT knob** ....(13, 17)
- ⓰ **CH VOL button** ....(13)
- ⓱ **ENTER button** ....(17, 18)
- ⓲ **VOLUME control knob** ....(12)
- ⓳ **MUTING button** ....(12)
- ⓴ **DIMMER button** ....(13)
- ㉑ **VIDEO SELECT button** ....(13)
- ㉒ **TUNING buttons (▲, ▼)** ....(14)
- ㉓ **Display** ....(4)
- ㉔ **PRESET buttons** ....(14)
- ㉕ **MEMORY button** ....(14)
- ㉖ **Remote control sensor** ....(3)
- ㉗ **BAND button** ....(14)
- ㉘ **INPUT SELECTOR knob** ....(12)

Display



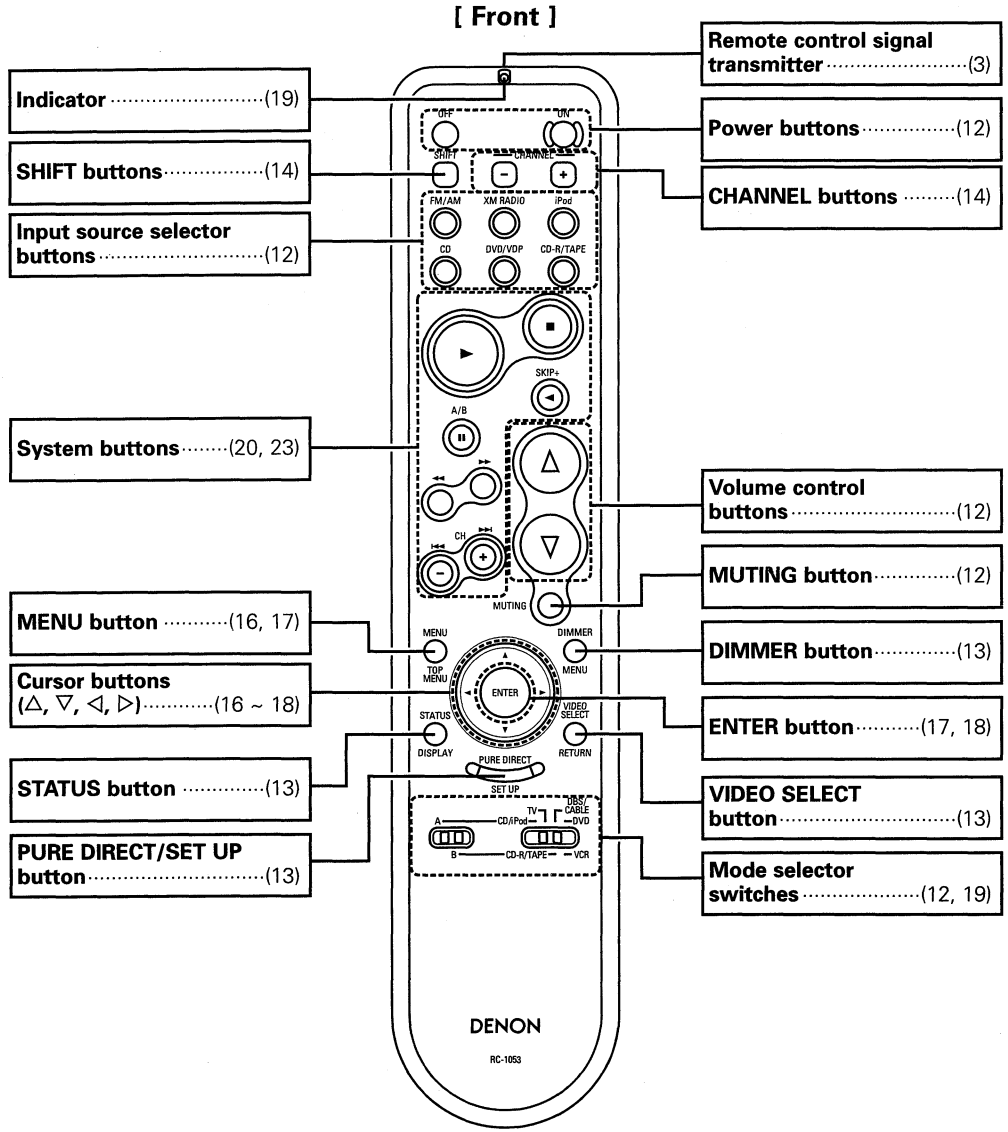
- ❶ **Signal channel indicator**
  Lights when the preset channel is displayed at ❷.
- ❷ **Information display**
- ❸ **Volume indicator**
  This displays the volume level.
- ❹ **STEREO indicator**
  This lights when an FM stereo broadcast has been received.
- ❺ **AUTO indicator**
  This lights when the broadcast station is selected in the AUTO tuning mode.
- ❻ **TUNED indicator**
  This lights when an FM/AM broadcast has been received.

Rear panel



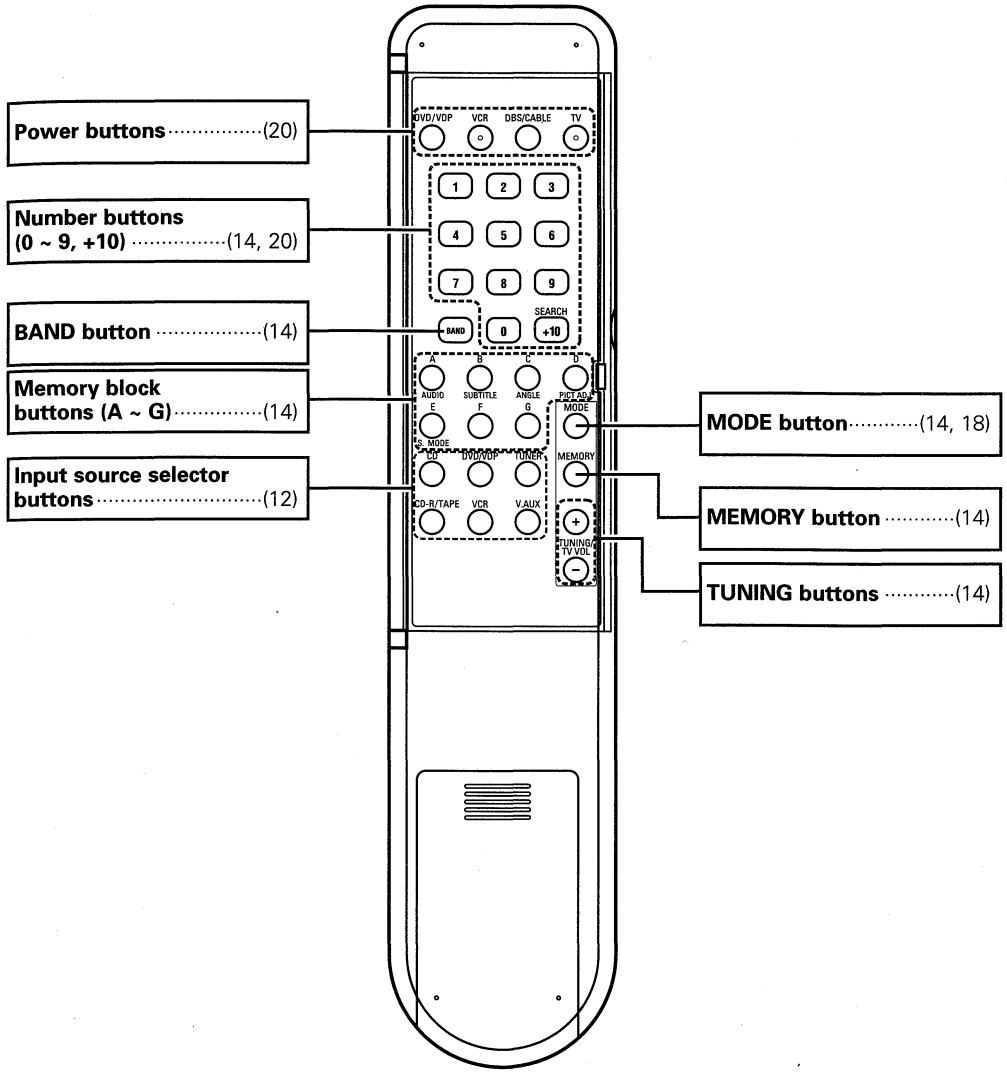
❶ **AUDIO OUT terminals**.....(8)
❷ **SUBWOOFER PRE OUT terminal**.....(11)
❸ **AUDIO IN terminals**.....(8)
❹ **PRE OUT terminals**.....(11)
❺ **VIDEO IN terminals**.....(8)
❻ **Speaker terminals**.....(7)
❼ **AC outlets**.....(11)
❽ **Power supply cord**.....(11)
❾ **VIDEO OUT terminals**.....(8)
❿ **DOCK CONTROL jack**.....(10)
⓫ **XM terminal**.....(10)
⓬ **ANTENNA terminals**.....(9)
⓭ **REMOTE CONTROL jacks**.....(11)

Remote control unit



NOTE:
- If buttons on the front or rear are pressed strongly, the button on the opposite side will be activated too.

[Rear]



NOTE:
- If buttons on the front or rear are pressed strongly, the button on the opposite side will be activated too.

Connections

Cable indications

The hookup diagrams on the subsequent pages assume the use of the following optional connection cables (not supplied).

Audio cable	Signal direction
A Analog connections (Stereo) (White) (Red) Pin-plug cable	Audio signal IN OUT OUT IN Video signal IN OUT OUT IN
B Analog connections (Monaural, for subwoofer) Pin-plug cable	
C Speaker connections + + – – Speaker cable	
D Video connections (Yellow) Video cable (75 Ω/ohms video pin-plug cable)	

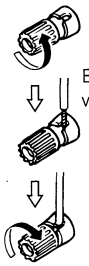
NOTE:
- Do not plug in the power supply cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other components.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Do not bundle power cords together with speaker cables. Doing so could result in humming or noise.

Speaker connections

Connect the speaker terminals with the speakers making sure that like polarities are matched (⊕ with ⊕, ⊖ with ⊖).

NOTE:
When making connections, take care that none of the individual conductors of the speaker cable come in contact with adjacent terminals, with other speaker cable conductors, or with the rear panel and screws.
NEVER touch the speaker terminals when the power is on. Doing so could result in electric shocks.

Connecting the speaker cables



1. Loosen by turning counterclockwise.

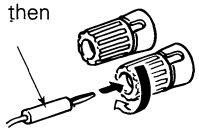
Either tightly twist or terminate the core wires.

2. Insert the cable.

3. Tighten by turning clockwise.

Connecting banana plugs

Turn clockwise to tighten, then insert the banana plug.



❑ Speaker impedance

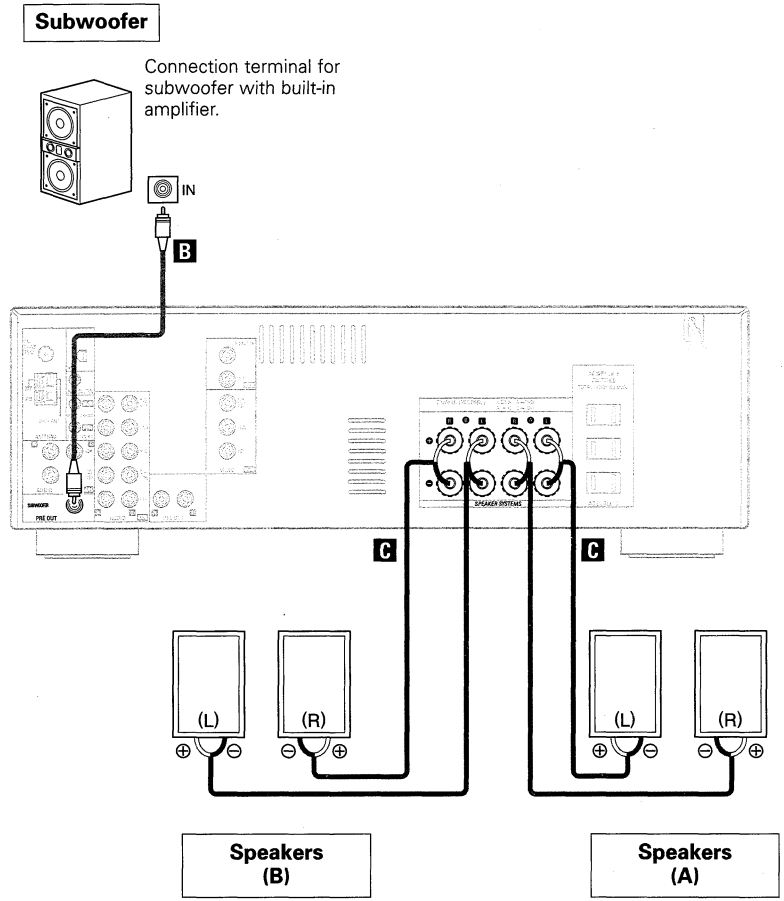
Speaker	Impedance
A, B	4 ~ 16 Ω/ohms
A+B	8 ~ 16 Ω/ohms

Note on speaker impedance

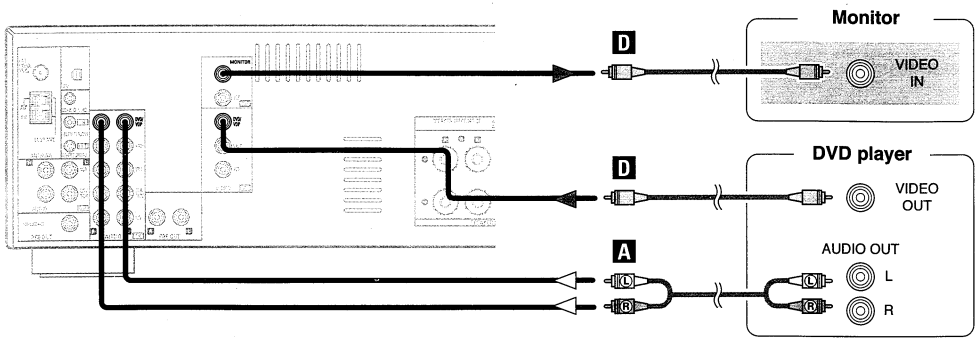
When using speakers with an impedance below the designated value (for example 4 Ω/ohms), playing for long periods of time with the volume high could cause the temperature to rise, activating the protection circuit.
When the protection circuit is activated, the output to the speakers is cut off and the power indicator blinks. If this happens, unplug the power cord, wait for the set to cool off and improve ventilation around the unit. Also check the wiring of the input cables and the speaker cables. After doing this, plug the power cord back in and turn the unit's power back on.
If the protection circuit is activated again even though there are no problems with the wiring or the ventilation around the unit, switch off the power and contact a DENON service center.

❑ Connections

• When making connections, also refer to the operating instructions of the other components.

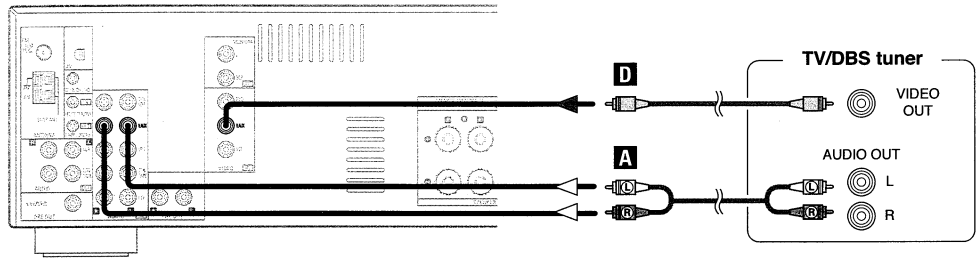


Connecting a DVD player and monitor

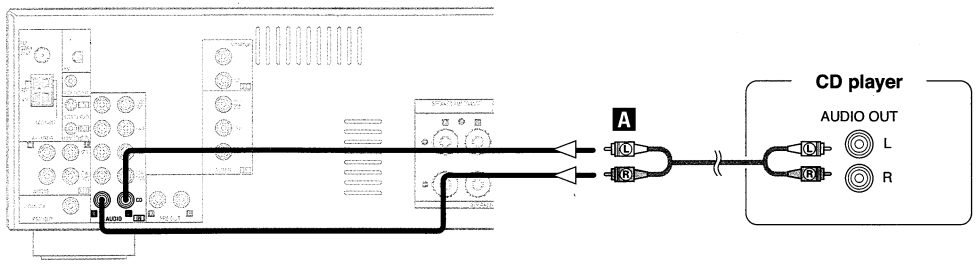


- Connect a non-DVD video disc player (such as a laser disc, VCD/SVCD, or future high definition disc player) to the DVD/VDP terminals in the same way.

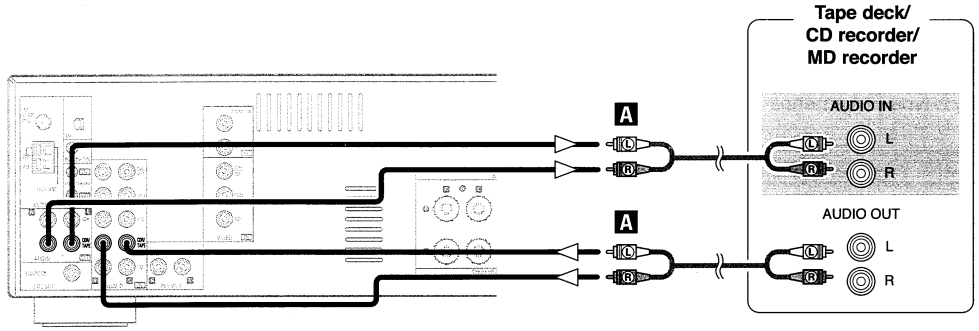
Connecting a TV/DBS tuner



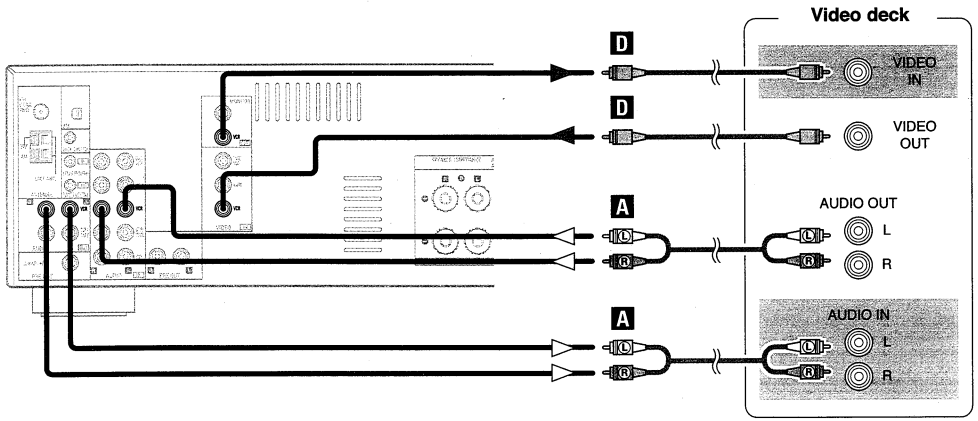
Connecting a CD player



Connecting a tape deck, CD recorder or MD recorder

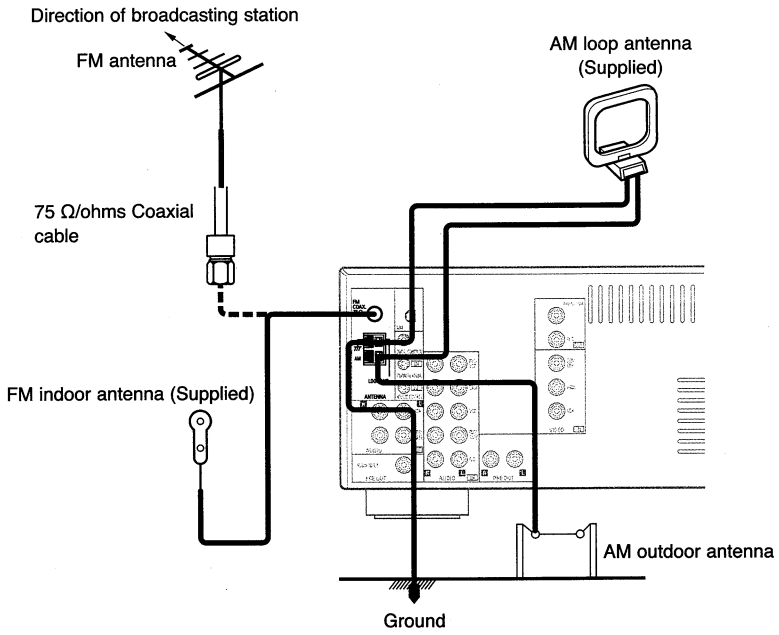


Connecting a VCR

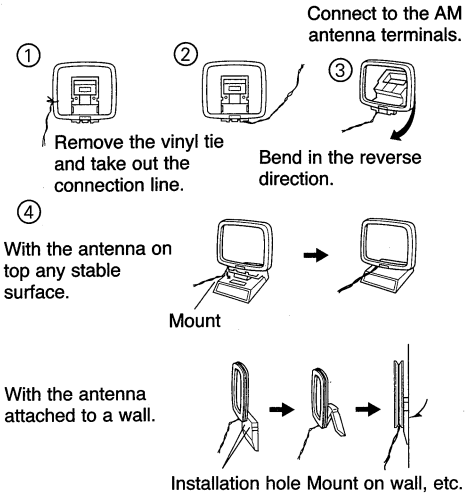


Connecting the antenna terminals

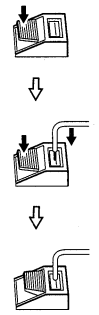
An F-type FM antenna cable plug can be connected directly.



❑ AM loop antenna assembly


Connect to the AM antenna terminals.
①
②
③
Remove the vinyl tie and take out the connection line.
Bend in the reverse direction.
④
a. With the antenna on top any stable surface.
Mount
b. With the antenna attached to a wall.
Installation hole
Mount on wall, etc.

Connection of AM antennas



NOTE:

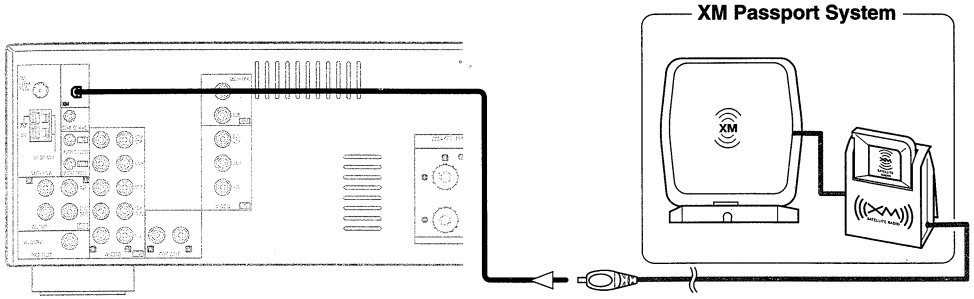
- Do not connect two FM antennas simultaneously.
- Even if an external AM antenna is used, do not disconnect the AM loop antenna.
- Make sure the AM loop antenna lead terminals do not touch metal parts of the panel.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Connecting the XM terminal

- DRA-297 is the XM Ready® receiver. You can receive XM® Satellite Radio by connecting to the XM Passport System (sold separately) and subscribing to the XM service.
- Plug the XM Passport System into XM terminal on the rear panel.
- Position the XM Passport System near a south-facing window to receive the best signal.
  For details, see "XM Satellite Radio" (☞ page 15).
  When making connections, also refer to the operating instructions of the XM Passport System.



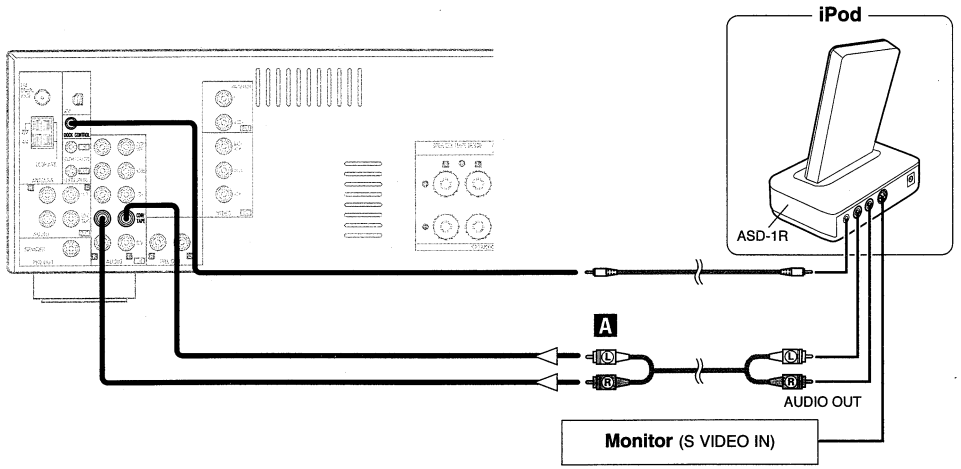
NOTE:
- Keep the power supply cord unplugged until the XM Passport System connection has been completed.

- The XM name and related logo are registered trademarks of XM Satellite Radio Inc. All rights reserved.
- XM Ready is a registered trademark of XM Satellite Radio Inc. All rights reserved.

Connecting the iPod®

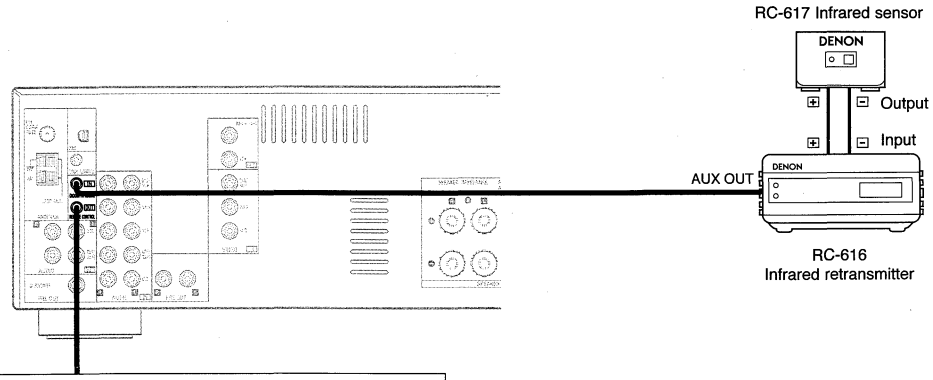
When using an iPod, you must connect the Control Dock for iPod (ASD-1R, sold separately) and the DOCK CONTROL jack on the DRA-297 with a mini-jack and assign the iPod to any AUDIO terminal(s).
The diagram below shows an example of connections for when the iPod is assigned to the CD-R/TAPE terminals.

※ For instructions on assigning the iPod to a specific terminal, see "Setting the iPod Assignment" (☞ page 16).
※ For instructions on playing the iPod, see "Playing the iPod" (☞ page 16).



- The optional standard Control Dock for iPod is DENON ASD-1R sold separately.

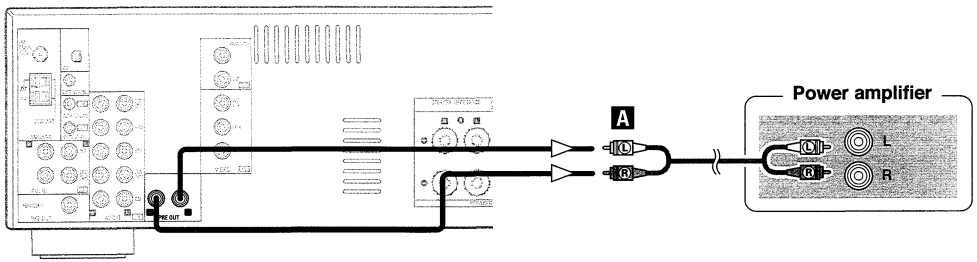
Connecting a room-to-room remote control unit



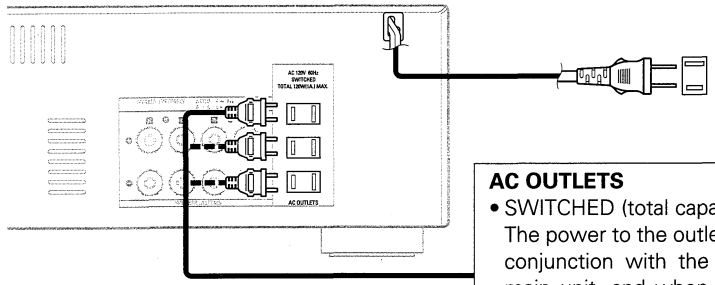
Extension terminals for future use.

NOTE:
- For instructions on installation and operation of separately sold devices, refer to the devices' operating instructions.

Connecting the PRE OUT terminals



Connecting the power supply cord

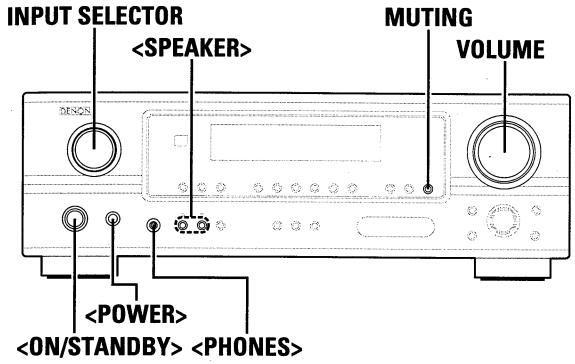


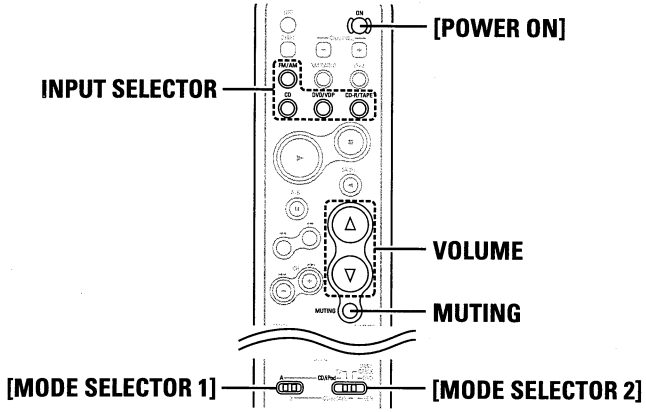
AC outlet (wall)

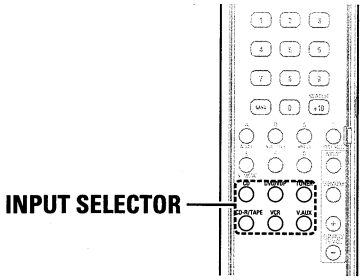
AC 120 V, 60 Hz

AC OUTLETS
- SWITCHED (total capacity – 120 W (1 A))
  The power to the outlet is turned on and off in conjunction with the **POWER** switch on the main unit, and when the power is switched between on and standby from the remote control unit.
  No power is supplied from this outlet when this unit's power is at standby. Never connect equipment whose total power consumption exceeds 120 W (1 A).

NOTE:
- Insert the plugs securely. Incomplete connections will result in the generation of noise.
- Only use the AC OUTLETS for audio equipment. Never use it for hair driers, monitors or other electrical appliances.







About the button names in this explanation

< > : Buttons on the main unit

[ ] : Buttons on the remote control unit

Button name only :

Buttons on the main unit and remote control unit

Operation

Before operating

1 Press <POWER>.

ON:
The power indicator lights red.

OFF:
The power turns off and the indicator is off.

2 Set [MODE SELECTOR 1] to "A".

3 Set [MODE SELECTOR 2] to "CD/iPod".

4 Press <ON/STANDBY> or [POWER ON].
- The power indicator blinks green and the power turns on.

Playing the input source

1 Use INPUT SELECTOR to select the input source you want to play.

2 Start playback on the selected component.

※ For operating instructions, refer to the component's manual.

3 Use VOLUME to adjust the volume.
- The volume level is displayed on the volume level display.

Turning the sound off temporarily (MUTING)

Press MUTING.

- Canceling MUTING mode:
  To cancel the muting mode, either press **MUTING** or adjust the volume.

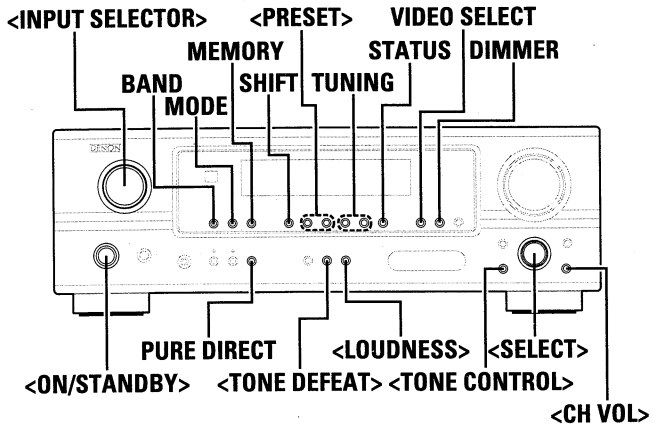
Listening over headphones

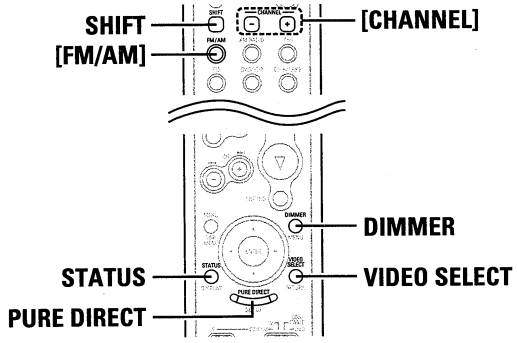
Connect the headphones to <PHONES>.
- No sound is produced from the speakers automatically.

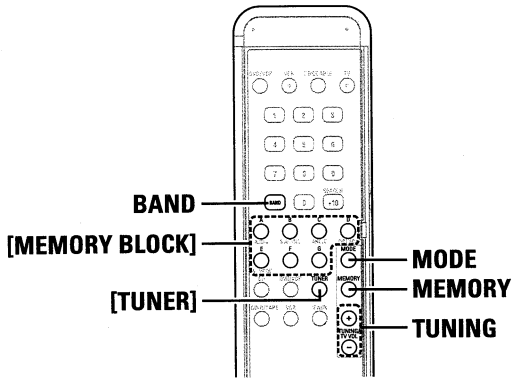
NOTE:
- To prevent hearing loss, be careful not to raise the volume level excessively when using headphones.

Switching the front speakers

Press <SPEAKER> to turn the corresponding speaker pair on.







About the button names in this explanation

< > : Buttons on the main unit

[ ] : Buttons on the remote control unit

Button name only :

Buttons on the main unit and remote control unit

Checking the currently playing program source, etc.

Press STATUS.

- The current program source and various settings are indicated on the display.

Switching the brightness of the display

Press DIMMER.

※ The brightness of the display can be adjusted in three steps. The display can also be turned off.

Selecting the play mode (PURE DIRECT)

This mode reproduces the sound with extremely high quality. The audio signals do not pass through the tone circuits, etc., and the display that could affect the audio signals are turned "OFF".

Press PURE DIRECT.

Setting the tone control

❑Adjusting the tone

1 Press <TONE CONTROL> to select "BASS" or "TREBLE".

2 Use <SELECT> to set the level.

※ Can be adjusted within the range of –10 dB to +10 dB.

❑When you do not want to adjust the tone

Press <TONE DEFEAT> to select "TONE DEFEAT ON".

❑When listening with the volume turned low

Press <LOUDNESS> to select "LOUDNESS ON".

Adjusting the speaker volume

1 Press <CH VOL> to select the speaker.

※ The settable speaker switches each time this button is pressed.

2 Use <SELECT> to adjust the volume.

※ Can be adjusted within the range of –12 dB to +12 dB.

Combining the currently playing sound with the desired image (VIDEO SELECT function)

Press VIDEO SELECT until the desired image appears on the display.

- To cancel, press **VIDEO SELECT** to select "SOURCE".
- The video source selected with the video select function is stored in the memory for the different input sources.

Listening to the radio

Check that the remote control unit is set to "A".

Auto preset memory

This unit is equipped with a function for automatically searching for FM broadcast stations and storing them in the preset memory.

1 **Press <ON/STANDBY> and set the DRA-297's power to the standby mode.**

2 **Hold <PRESET ▲> and press <ON/STANDBY>.**
- The unit automatically begins searching for FM broadcast stations.

※ When the first FM broadcast station is found, that station is stored in the preset memory at channel A1.
Subsequent stations are automatically stored in order at preset channels A1 to A8, B1 to B8, C1 to C8, D1 to D8, E1 to E8, F1 to F8 and G1 to G8 for a maximum of 56 stations.
※ Channel A1 is tuned in after the auto preset memory operation is completed.

- If an FM station cannot be preset automatically due to poor reception, use the "Manual tuning" operation to tune in the station, then preset it using the manual "Preset memory" operation.
- To interrupt this function, press **<ON/STANDBY>**.

❑ Default settings

Auto tuner presets	
A1 ~ A8	87.5 / 89.1 / 98.1 / 107.9 / 90.1 / 90.1 / 90.1 / 90.1 MHz
B1 ~ B8	520 / 600 / 1000 / 1400 / 1500 / 1710 kHz, 90.1 / 90.1 MHz
C1 ~ C8	90.1 MHz
D1 ~ D8	90.1 MHz
E1 ~ E8	90.1 MHz
F1 ~ F8	90.1 MHz
G1 ~ G8	90.1 MHz

Auto tuning

1 **Use <INPUT SELECTOR> to select "TUNER" or press [TUNER].**

2 **Press BAND to select "AM" or "FM".**
※ When listening to the XM Satellite Radio (☞ page 15).

3 **Press MODE to set the auto tuning mode.**
- The "AUTO" indicator lights.

4 **Press TUNING.**
- Automatic searching begins.

- If tuning does not stop at the desired station, use to the "Manual tuning" operation.
- "AM" or "FM" can be selected directly by pressing **[FM/AM]**.

Manual tuning

1 **Use <INPUT SELECTOR> to select "TUNER" or press [TUNER].**

2 **Press BAND to select "AM" or "FM".**
※ When listening to the XM Satellite Radio (☞ page 15).

3 **Press MODE to set the manual tuning mode.**
※ Check that the display's "AUTO" indicator turns off.

4 **Press TUNING.**
※ The frequency changes continuously when the button is held in.

- When the manual tuning mode is set, FM stereo broadcasts are received in monaural and the "STEREO" indicator turns off.
- "AM" or "FM" can be selected directly by pressing **[FM/AM]**.

Preset memory

1 **Use the "Auto tuning" or "Manual tuning" operation to tune in the station to be preset in the memory.**

2 **Press MEMORY.**

3 **Press [MEMORY BLOCK] (A to G) or SHIFT to select the desired memory block (A to G).**

4 **Press <PRESET> or [CHANNEL] to select the desired preset channel (1 to 8).**

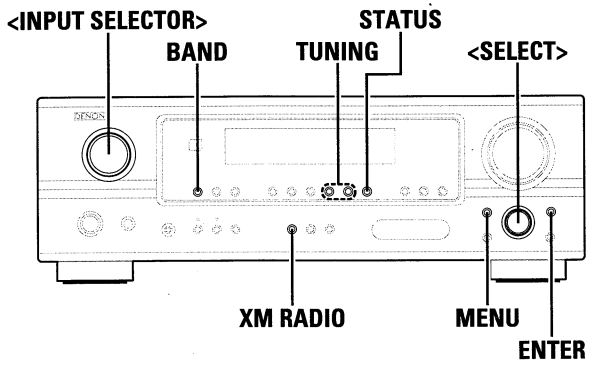
5 **Press MEMORY again.**
- Store the station in the preset memory.

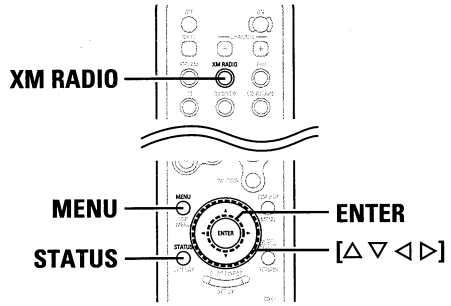
- To preset other channels, repeat steps 2 to 4.
A total of 56 broadcast stations can be preset — 8 stations (channels 1 to 8) in each of blocks A to G.

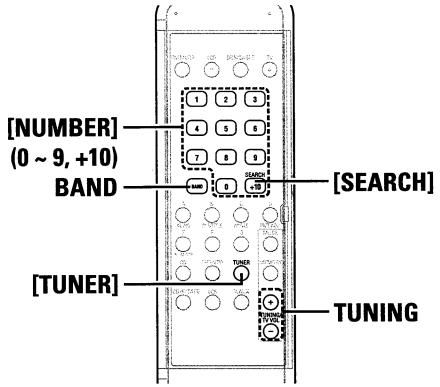
Recalling preset stations

1 **Press [MEMORY BLOCK] (A to G) or SHIFT to select the memory block.**

2 **Press <PRESET> or [CHANNEL] to select the desired preset channel.**







About the button names in this explanation

< > : Buttons on the main unit

[ ] : Buttons on the remote control unit

Button name only :

Buttons on the main unit and remote control unit

XM Satellite Radio

DRA-297 is the XM Ready receiver. You can receive XM® Satellite Radio by connecting to the XM Passport System (sold separately) and subscribing to the XM service.

❑ Introducing XM Satellite Radio

There's a world of audio listening pleasure beyond AM and FM. XM Satellite Radio. Select from over 170 channels of music, news, sports, comedy, talk, and entertainment. Coast-to-coast coverage. Digital quality sound. With all music channels 100% commercial free.
Questions?: Visit www.xmradio.com.

❑ How to Subscribe

Listeners can subscribe by visiting XM on the Web at www.xmradio.com or by calling XM's Listener Care at (800) 967-2346.
Customers should have their Radio ID and credit card ready. The Radio ID can be found by selecting channel 0 on the radio.

❑ A Warning Against Reverse Engineering

It is prohibited to copy, decompile, disassemble, reverse engineer, or manipulate any technology incorporated in receivers compatible with the XM Satellite Radio system.
Furthermore, the AMBE® voice compression software included in this product is protected by intellectual property rights including patent rights, copyrights, and trade secrets of Digital Voice Systems, Inc. The user of this or any other software contained in an XM Radio is explicitly prohibited from attempting to copy, decompile, reverse engineer, or disassemble the object code, or in any other way convert the object code into human-readable form. The software is licensed solely for use within this product.

Hardware and required $12.95 monthly service subscription sold separately. Other fees and taxes, including a one-time activation fee may apply. Subscription fee is consumer only. All fees and programming subject to change. Channels with frequent explicit language are indicated with an XL. Channel blocking is available for XM radio receivers by calling 1-800-XMRADIO. Subscriptions subject to Customer Agreement available at xmradio.com. XM service only available in the 48 contiguous United States. ©2006 XM Satellite Radio Inc. All rights reserved.

Checking the XM signal strength and Radio ID

1 **Use <INPUT SELECTOR> to select "TUNER" or press [TUNER].**

2 **Press BAND to select "XM".**

3 **Press STATUS until "SIGNAL" is displayed.**
- The display changes as shown below according to the receiving condition.

Display	Condition
GOOD	Signal strength is good
MARGINAL	Signal strength is marginal
WEAK	Signal strength is poor
NO	Loss of the signal

4 **Adjust the antenna location until "SIGNAL:GOOD" is displayed.**

5 **Press STATUS until the XM channel (ex.XM001) is displayed.**

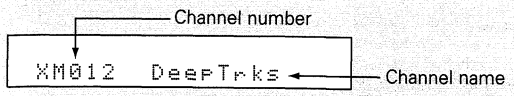
6 **Press TUNING to select channel 0 (XM000).**

XM000 Radio ID ← Radio ID

Channel selection

1 Use <INPUT SELECTOR> to select "TUNER" or press [TUNER].

2 Press BAND to select "XM".



3 Press TUNING to reach the desired channel.

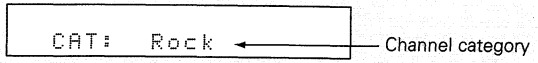
※ The channel changes continuously when you press and hold **TUNING**.

※ When the artist name and song title are received, they are displayed.

Category search

1 Press [◁ ▷] in the XM mode.

• The current category name is displayed.



2 Press [◁ ▷] to select the category, and press [△ ▽] to select the channel within the selected category.

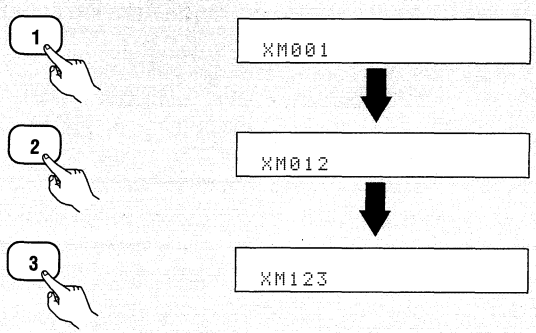
• "LOADING" is displayed while receiving the channel or information.
• "UPDATING" is displayed while updating encryption code.
• When the selected channel is not available, "XM – – –" is displayed.
• Information on the artist name, song title, category and signal level can be checked using **STATUS**.
• The XM Satellite Radio channels can be preset in the same way as AM/FM band (☞ page 14).
• "XM" can be selected directly by pressing **XM RADIO**.

Direct access of channels

1 Press [SEARCH] in the XM mode.

2 Press [NUMBER] to enter the desired channel.

※ For example, if you want to access channel 123 (ex.XM123) press **[NUMBER]** as shown below.



(Remote control unit)

3 Once all number have been input, press ENTER to change the channel.

※ If the next **[NUMBER]** is not pressed within several seconds, the channel automatically switches to the channel number that was input.

Playing the iPod®

The music recorded on the iPod can be played when using a Control Dock for iPod (ASD-1R, sold separately). The iPod can be controlled using the buttons on the main unit and the remote control unit.

Made for iPod

iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

※ With the iPod, non-copyrighted contents and contents that may be legally reproduced or played may be reproduced and played by individuals for their personal use. Violating copyrights is prohibited by law.

Setting the iPod Assignment

It is possible to assign the Control Dock for iPod's (ASD-1R, sold separately) audio and video signals to any input terminals on the DRA-297 and play them.

1 Press MENU.

2 Use <SELECT> or press [◁ ▷] to select the input terminals.

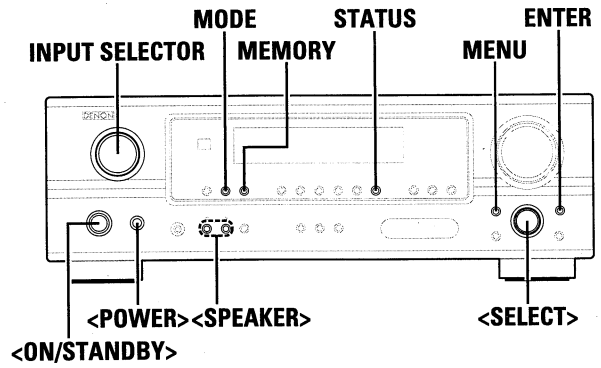
NONE:
This is the factory default setting.

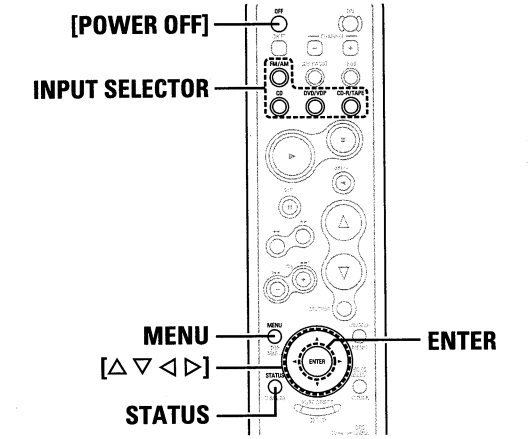
DVD, VCR, V.A, CDR, CD:
When using a Control Dock for iPod, it is possible to connect with the audio input terminal of the assigned function.

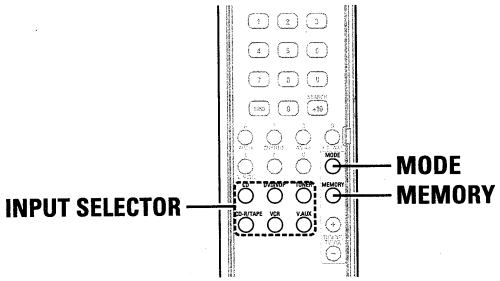
3 Press ENTER.

• The optional standard Control Dock for iPod is DENON ASD-1R sold separately.
• To assign to a different function after a function has already been assigned, switch to a function other than the one that is assigned then repeat the procedure.

NOTE:
• DENON will accept no responsibility whatsoever for loss or damage of data on an iPod occurring when the iPod is used connected to the DRA-297.
• Some of the functions may not operate, depending on the type of iPod and the software version.







About the button names in this explanation

< > : Buttons on the main unit

[ ] : Buttons on the remote control unit

Button name only :

Buttons on the main unit and remote control unit

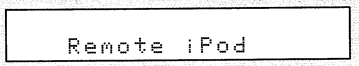
Listening to music

1 **Connect the DRA-297 and iPod using the Control Dock for iPod (ASD-1R) (☞ page 10).**

2 **Assign the input terminal at "Setting the iPod Assignment" (☞ page 16).**

3 **Use INPUT SELECTOR to select the function assigned in step 2.**

- Display "Remote iPod" on the main unit's display.



※ If the screens above are not displayed, the iPod may not be properly connected. Check the connections and settings.

4 **Operate using MENU, <SELECT>, [△ ▽ ◁ ▷], and ENTER while watching the iPod's screen.**

- The optional standard Control Dock for iPod is DENON ASD-1R sold separately.

Listening to music in the Browse mode

The mode switches between the Remote mode and the Browse mode if **MODE** is pressed for at least 2 seconds.

1 **Use <SELECT> or press [△ ▽] to select the music file, then press ENTER or [▷].**

※ Press [◁] to return to the music menu screen.

2 **Press ENTER or [▷].**

- Playback starts.

Pause:

Press **ENTER** during playback.

Press again to resume.

Manual search:

Press and hold in [△ ▽] during playback.

- △: Fast reverse
- ▽: Fast forward

Track search:

Press [△ ▽] during playback.

- △: Move to beginning of previous track
- ▽: Move to beginning of next track

Stop:

Press **ENTER** for at least 2 seconds during playback.

Repeat play:

Press **MODE**.

The mode switches as follows each time **MODE** is pressed.

- **Repeat One:** Single track repeat
- **Repeat All:** All track repeat

Shuffle play:

Press **MEMORY**.

The mode switches as follows each time **MEMORY** is pressed.

- **Shuffle Songs:** Single track shuffle
- **Shuffle Albums:** Album shuffle

※ In the Remote mode, only **<SELECT>**, [△ ▽ ◁ ▷], and **ENTER** can be used.

- When **STATUS** is pressed during playback, the front panel display switches between the title name, artist name and album name.
- Depending on the iPod's software version, it may not be possible to operate the iPod from the DRA-297. Use the latest version of the software. Information on the latest version of the software can be obtained on the Apple Computer website.
- With the DRA-297 it is possible to display folder names and file names on the screen like titles. The DRA-297 can display up to 64 characters, consisting of numbers, capital letters and small letters. A "?" mark is displayed in place of non-compatible characters.

Viewing still pictures and videos (only for iPods equipped with the slideshow / video function)

Use this procedure to view photo and video data stored on the iPod on a monitor.

1 Press MODE for at least 2 seconds to switch from the Browse mode to the Remote mode.
- "Remote iPod" is displayed on the DRA-297's display.

2 Watching the iPod's screen, press [△ ▽] to select "Photos" or "Video", then press ENTER or [▷].
- The iPod's photo and video data are displayed on the monitor.

- To output photo or video data recorded on the iPod to the monitor, the iPod's "TV Out" setting (under "Video Settings") must be set to "ON".
  For details, refer to the iPod's operating instructions.

Disconnecting the iPod

Press <ON/STANDBY> or [POWER OFF] and set the DRA-297's power to the standby mode.

※ The iPod can be disconnected after switching to a function other than the one to which the iPod input is assigned.

Recording the program source (recording the source currently being monitored)

1 Select the input source to be played.

2 Start recording on the tape or video deck.

※ For instructions, refer to the component's operating instructions.

- The AUDIO IN's signal selected with **INPUT SELECTOR** are output to the CD-R/TAPE and VCR AUDIO OUT terminals.

❑ Simultaneous recording

The signals of the source selected with **INPUT SELECTOR** are output simultaneously to the CD-R/TAPE and VCR REC OUT terminals. If a total of two tape and/or video decks are connected and set to the recording mode, the same source can be recorded simultaneously on every decks.

About the memory functions

❑ Last function memory

The various settings set when the DRA-297's power is switched to standby are stored in the memory. When the power is turned back on, the settings made when the power was switched to standby are recalled.

❑ Backup memory

The various settings are stored in the memory for about 1 week, even when the power is turned off or the power cord is unplugged.

Initialization of the microprocessor

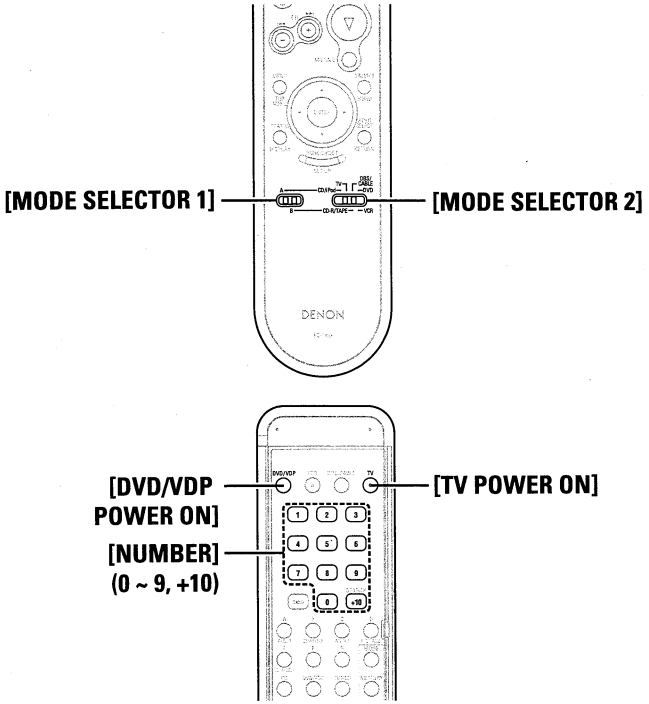
If the indication on the display is not normal or if the operation of the unit is not correct, then the microprocessor should be reset by the following procedure.

1 Switch off the unit using <POWER>.

2 Keep both <SPEAKER> (A and B) depressed and turn on the unit by pressing <POWER>.

3 Check that the entire display is flashing at 1-second intervals and release the buttons.
- The microprocessor will be initialized.

- If step 3 does not work, start over from step 1.
- If the microprocessor has been reset, all the button settings are reset to the default values (the values set upon shipment from the factory).



Operating the remote control unit

Operating DENON audio components

1 **Set [MODE SELECTOR 1] to "A" or "B".**

2 **Set [MODE SELECTOR 2] to the position for the component to be operated.**

3 **Operate the audio component.**

※ For details, refer to the component's operating instructions.
※ While this remote control is compatible with a wide range of infrared controlled components, it may be the case that some component models cannot be operated with this remote control.

Setting the preset memory function

- DENON and other makes of components can be operated by setting the preset memory.
- This remote control unit can be used to operate components of other manufacturers without using the learning function by registering the manufacturer of the component as shown in the list of preset codes (☞ End of this manual).
- Operation is not possible for some models.

1 **Set [MODE SELECTOR 1] to "A" or "B".**

※ Set to the A side for the CD/iPod, TV, DBS/CABLE or DVD position, and to the B side for the CD-R/TAPE or VCR position.

2 **Set [MODE SELECTOR 2] to the component to be registered.**

3 **Press [DVD/VDP POWER ON] and [TV POWER ON] at the same time.**
- The indicator starts flashing.

4 **Referring to the included list of preset codes, press [NUMBER] to input the preset code (a 3-digit number) for the manufacturer of the component whose signals you want to store in the memory.**

5 **To store the codes of another component in the memory, repeat steps 1 to 4.**

- The signals for the pressed buttons are emitted while setting the preset memory. To avoid accidental operation, cover the remote control unit's transmitting window while setting the preset memory.
- Depending on the model and year of manufacture, this function cannot be used for some models, even if they are of makes listed in the list of preset codes.
- Some manufacturers use more than one type of remote control code. Refer to the included list of preset codes to change the number and verify correct operation.
- The preset memory can be set for one component only among the following: CD/iPod, DBS/CABLE and CD-R/TAPE.

Operating a component stored in the preset memory

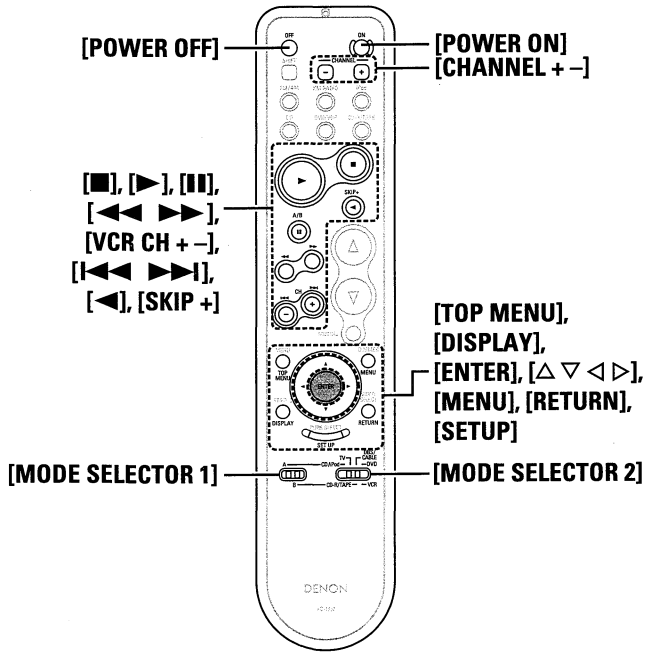
1 **Set [MODE SELECTOR 1] to "A" or "B".**

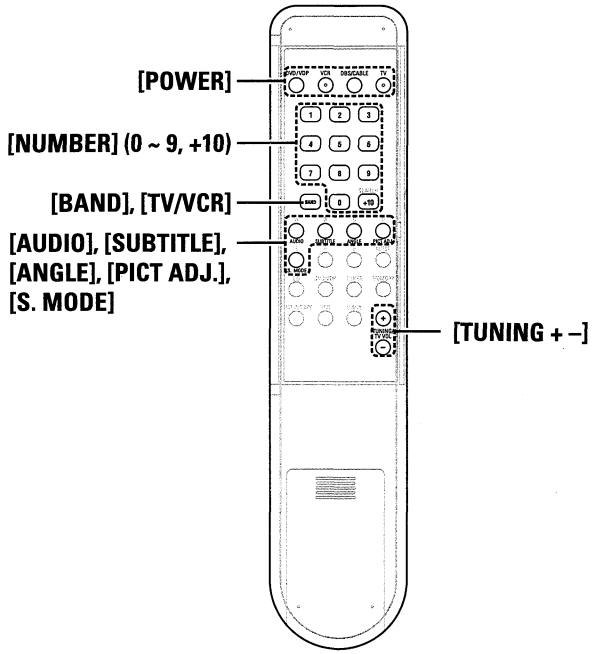
※ Set to the A side for the CD/iPod, TV, DBS/CABLE or DVD position, and to the B side for the CD-R/TAPE or VCR position.

2 **Set [MODE SELECTOR 2] to the component you want to operate.**

3 **Operate the component.**

※ For details, refer to the component's operating instructions.
※ Some models cannot be operated with this remote control unit.





❑ Functions of buttons for the different devices

[Front]

Device operated	CD player or iPod	TV (Monitor)	Satellite tuner	Cable TV	DVD player	CD recorder	Tape deck	MD recorder	Video deck
MODE SELECTOR 1	A					B			
MODE SELECTOR 2	CD/iPod	TV	DBS/CABLE		DVD	CD-R/TAPE			VCR
OFF	Power off	–	–	–	Power off	Power off	Power off	Power off	–
ON	Power on	Power on	Power on	Power on	Power on	Power on	Power on	Power on	Power on
CHANNEL –	Preset –	TV channels –	Channels –	Channels –	Preset –	Preset –	Preset –	Preset –	TV channels –
CHANNEL +	Preset +	TV channels +	Channels +	Channels +	Preset +	Preset +	Preset +	Preset +	TV channels +
►	Play	Punch through	Punch through	Punch through	Play	Play	Forward play	Play	Play
■	Stop	Punch through	Punch through	Punch through	Stop	Stop	Stop	Stop	Stop
II, A/B	Pause	Punch through	Punch through	Punch through	Pause	Pause	A/B switching	Pause	Pause
◄◄, SKIP +	Disc skip +	Punch through	Punch through	Punch through	Disc skip +	–	Reverse play	–	–
◄◄	Search (reverse)	Punch through	Punch through	Punch through	Search (reverse)	Search (reverse)	Rewind	Search (reverse)	Search (reverse)
►►	Search (forward)	Punch through	Punch through	Punch through	Search (forward)	Search (forward)	Fast forward	Search (forward)	Search (forward)
I◄◄, VCR CH –	Skip (reverse)	Punch through	Punch through	Punch through	Skip (reverse)	Skip (reverse)	–	Skip (reverse)	Channel –
►►I, VCR CH +	Skip (forward)	Punch through	Punch through	Punch through	Skip (forward)	Skip (forward)	–	Skip (forward)	Channel +
MENU	Menu	Menu	Menu	Menu	Top menu	Menu	Menu	Menu	–
△▽◁▷	Cursor operation	Cursor operation	Cursor operation	Cursor operation	Cursor operation	Cursor operation	Cursor operation	Cursor operation	–
DIMMER	Dimmer	Dimmer	Dimmer	Dimmer	Menu	Dimmer	Dimmer	Dimmer	Dimmer
ENTER	Enter	Enter	Enter	Enter	Enter	Enter	Enter	Enter	–
STATUS	Status	Display	Display	Display	Display	Status	Status	Status	–
VIDEO SELECT	Video selection	Return	Return	Return	Return	Video selection	Video selection	Video selection	–
PURE DIRECT	Pure direct	Pure direct	Pure direct	Pure direct	Set up	Pure direct	Pure direct	Pure direct	Pure direct

Operating the remote control unit

[Rear]

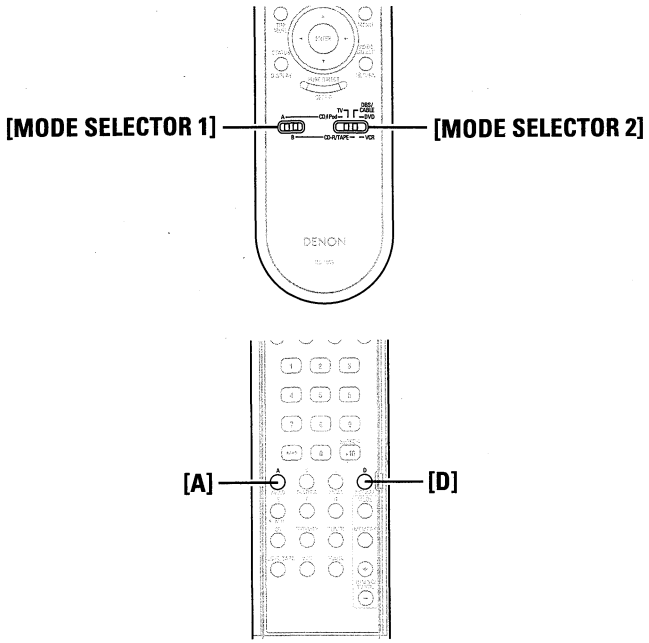
Device operated	CD player or iPod	TV (Monitor)	Satellite tuner	Cable TV	DVD player	CD recorder	Tape deck	MD recorder	Video deck
MODE SELECTOR 1	A					B			
MODE SELECTOR 2	CD/iPod	TV	DBS/CABLE		DVD	CD-R/TAPE			VCR
POWER	Power on/off	Power on/off	Power on/off	Power on/off	Power on/off	Power on/off	Power on/off	Power on/off	Power on/off
NUMBER (0 ~ 9, +10)	Channels	Channels	Channels	Channels	Channels	Channels	Channels	Channels	Channels
BAND	FM/AM/XM switching	TV/VCR switching	TV/VCR switching	TV/VCR switching	TV/VCR switching	FM/AM/XM switching	FM/AM/XM switching	FM/AM/XM switching	TV/VCR switching
A. AUDIO	Memory block	–	–	–	Audio	Memory block	Memory block	Memory block	–
B. SUBTITLE	Memory block	–	–	–	Subtitle	Memory block	Memory block	Memory block	–
C. ANGLE	Memory block	–	–	–	Angle	Memory block	Memory block	Memory block	–
D. PICT ADJ.	Memory block	–	–	–	Picture adjust	Memory block	Memory block	Memory block	–
E. S.MODE	Memory block	–	–	–	Search mode	Memory block	Memory block	Memory block	–
TUNING +	Tuning +	TV volume +	Volume +	Volume +	TV volume +	Tuning +	Tuning +	Tuning +	TV volume +
TUNING –	Tuning –	TV volume –	Volume –	Volume –	TV volume –	Tuning –	Tuning –	Tuning –	TV volume –
Default setting (Preset code)	DENON (111)	HITACHI (134)	–	ABC (007)	DENON (111)	–	DENON (114)	–	HITACHI (108)
Special remarks	①	①, ③	①, ③		①, ②	①			①

Special remarks:

① It is only possible to set the preset memory for one device per mode. When a new code is preset, the previous code is automatically deleted.

② Note that the function names of the DVD buttons on the remote control unit may differ for some brands. Check beforehand.

③ The CD, TAPE/CD-R/MD, VCR or DVD/VDP buttons can be assigned to a TV or satellite tuner (or cable TV) (☞ page 23).



Setting the punch through function

"Punch Through" is a function allowing you to operate ▶, ■, ◀, ❚❚, ◀◀, ▶▶, I◀◀ and ▶▶I on CD, DVD/VDP, TAPE/CD-R/MD or VCR components when in the TV or DBS/CABLE mode. By default, nothing is set.

1 **Set [MODE SELECTOR 1] to "A".**

2 **Set [MODE SELECTOR 2] to the component to be registered (TV or DBS/CABLE).**

3 **Press [A] and [D] at the same time.**
- The indicator starts flashing.

4 **Input the number of the component you want to set.**

	No.
CD	1
DVD/VDP	2
TAPE/CD-R/MD	3
VCR	4
No setting	0

Troubleshooting

If a problem should arise, first check the following.

1. Are the connections correct?

2. Have you operated the receiver according to the Operating Instructions?

3. Are the speakers and other components operating properly?

If this unit is not operating properly, check the items listed in the table below. Should the problem persist, there may be a malfunction. Disconnect the power immediately and contact your store of purchase.

Symptom	Cause	Measures	Page
Display not lit and sound not produced when POWER switch set to on.	• Power supply cord not plugged in securely.	• Check the insertion of the power supply cord plug.	11
Display lit but sound not produced.	• Speaker cables not securely connected. • INPUT SELECTOR knob position is not appropriate. • Volume control set to minimum. • MUTING is on.	• Connect securely. • Switch to the proper position. • Turn volume up to suitable level. • Switch off MUTING.	7 12 12 12
Nothing is displayed on monitor.	• DRA-297's video output terminals and monitor's input terminals are not properly connected. • Monitor's input setting is wrong.	• Check that the connections are correct. • Set the monitor's input selector to the terminals to which video signals are connected.	8 —
Copying from DVD to VCR is not possible.	• Copying between a source such as DVD and a VCR is not usually possible, as DVDs are often encoded with copy-protection signals that prevent VCR recording.	• Copying is not possible.	—
No sound is produced from subwoofer.	• Subwoofer's power is not on. • Subwoofer's initial setting is set to "NO". • Subwoofer's output is not connected. • The subwoofer's channel volume level is set to "OFF".	• Turn on the power. • Set the setting to "YES". • Connect properly. • Turn the subwoofer's channel volume level up.	— — 11 13
This unit does not operate properly when remote control unit is used.	• Batteries dead. • Remote control unit too far from this unit. • Obstacle between this unit and remote control unit. • Different button is being pressed. • ⊕ and ⊖ ends of batteries inserted in reverse.	• Replace with new batteries. • Move closer. • Remove obstacle. • Press the proper button. • Insert batteries properly.	3 3 — — 3
Power has turned off and the power indicator is blinking red.	• The set's internal temperature has risen and the protection circuit has been activated. • The core wires of the speaker cables are touching each other or the DRA-297's rear panel, activating the protection circuit. • DRA-297 is malfunctioning.	• Put the DRA-297 in a well-ventilated place. • Turn off the power, then wait for the set to fully cool off before turning the power back on. • Check the connections of all the speaker cables. • Turn off the power and contact a DENON customer service center.	7 7 7 7
"CHECK ANTENNA" is displayed in the XM mode.	• DRA-297's XM connectors and the XM Passport System is not properly connected.	• Check that the connection are correct.	10, 15
"NO SIGNAL" is displayed in the XM mode.	• The signal cannot be received.	• Reposition your XM Passport System.	15
"OFF AIR" is displayed in the XM mode.	• The selected channel is not currently broadcasting.	• Select the another channel.	15
Receiving only XM channels 0 and 1.	• The XM Tuner is not activated.	• Contact XM Radio.	10, 15

Specifications

❑ Audio section

- **Power amplifier**

Rated output:	50 W + 50 W	(8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)
Output terminals:	A or B	4 ~ 16 Ω/ohms
	A + B	8 ~ 16 Ω/ohms

- **Analog**

(LINE input-PRE OUT)	
Input sensitivity / input impedance:	200 mV / 47 kΩ/kohms
Frequency response:	10 Hz ~ 100 kHz: +1, –3 dB (TONE DEFEAT ON)
S/N:	98 dB (IHF-A weighted) (TONE DEFEAT ON)
Total harmonic distortion:	0.009 % (–3 dB at rated output, 8 Ω/ohms) (1 kHz)
Rated output:	1.2 V

❑ Video section

- **Standard video terminals**

Input / output level and impedance:	1 Vp-p, 75 Ω/ohms
Frequency response:	5 Hz ~ 10 MHz — +1, –3 dB

❑ Tuner section

		[FM]	**[AM]**
		(note: µV at 75 Ω/ohms, 0 dBf = 1 x 10^{-15} W)	
Receiving Range:		87.5 MHz ~ 107.9 MHz	520 kHz ~ 1710 kHz
Usable Sensitivity:		1.0 µV (11.2 dBf)	18 µV
50 dB Quieting Sensitivity:	MONO	1.6 µV (15.3 dBf)	
	STEREO	23 µV (38.5 dBf)	
S/N (IHF-A):	MONO	77 dB (IHF-A weighted)	
	STEREO	72 dB (IHF-A weighted)	
Total Harmonic Distortion (at 1 kHz):	MONO	0.15 % (1 kHz)	
	STEREO	0.3 % (1 kHz)	

❑ General

Power supply:	AC 120 V, 60 Hz
Power consumption:	3.0 A
Maximum external dimensions:	434 (W) x 147 (H) x 417 (D) mm (17-3/32" x 5-25/32" x 16-27/64")
Mass:	8.5 kg (18 lbs 11.8 oz)

❑ Remote control unit (RC-1053)

Batteries:	R6P/AA Type (Two batteries)
External dimensions:	52 (W) x 243 (H) x 21 (D) mm (2-3/64" x 9-9/16" x 53/64")
Mass:	175 g (Approx. 6.2 oz) (included batteries)

* For purposes of improvement, specifications and design are subject to change without notice.

❑ List of preset codes / Liste de codes préréglés

DVD

Denon	014, ***[111]**
Aiwa	009
Hitachi	010
JVC	006, 011
Konka	012, 013
Magnavox	005
Mitsubishi	004
Panasonic	014
Philips	005, 015, 016, 017
Pioneer	003, 008
Sanyo	018
Sony	002, 019, 020
Toshiba	001, 021, 022
Zenith	023

VDP

Denon	028, 029, 112
Magnavox	026
Mitsubishi	028
Panasonic	029, 030
Philips	026
Pioneer	028, 031
RCA	032
Sony	033, 034, 035, 036

VCR

Admiral	081
Aiko	095
Aiwa	009
Akai	026, 027, 070, 072, 082, 083, 084
Alba	055
Amstrad	009
ASA	042
Asha	087
Audio Dynamic	005, 085
Audiovox	088
Beaumark	087
Broksonic	086, 093
Calix	088
Candle	006, 087, 088, 089, 090
Canon	049, 057
Capehart	025, 055, 056, 071
Carver	015
CCE	095
Citizen	006, 007, 087, 088, 089, 090, 095
Craig	007, 087, 088, 091, 115
Curtis Mathes	006, 049, 073, 080, 087, 090, 092
Cybernex	087
Daewoo	025, 055, 059, 074, 089, 093, 095, 096
Daytron	025, 055
DBX	005, 085
Dumont	053
Dynatech	009
Electrohome	001, 088, 097
Electrophonic	088
Emerson	001, 009, 017, 027, 086, 088, 089, 092, 093, 097, 100, 101, 102, 103, 104, 117
Fisher	009, 028, 031, 053, 054, 091, 099, 115
GE	007, 011, 049, 050, 051, 052, 073, 080, 087
Go Video	047, 048
Goldstar	000, 006, 012, 062, 088
Gradiente	094
Grundig	042
Harley Davidson	094
Harman Kardon	040, 062
Hi-Q	091
Hitachi	009, 013, 023, 026, 058, ***[108]**, 109, 110, 111
JC Penny	004, 005, 007, 023, 028, 049, 062, 085, 087, 088
Jensen	013, 026
JVC	004, 005, 006, 026, 029, 043, 044, 045, 046, 085
Kenwood	004, 005, 006, 026, 029, 033, 045, 085, 090
Kodak	088
Lloyd	009, 094
LXI	088
Magnavox	015, 016, 042, 049, 063, 106
Magnin	087
Marantz	004, 005, 006, 015, 042, 049, 085, 090
Marta	088
MEI	049
Memorex	009, 033, 049, 053, 060, 081, 087, 088, 091, 094, 115
Metz	123, 124, 125, 126, 127, 128
MGA	001, 017, 027, 041, 097
MGN Technology	087
Midland	011
Minolta	013, 023
Mitsubishi	001, 003, 008, 013, 014, 017, 027, 029, 039, 040, 041, 045, 097
Motorola	081
Montgomery Ward	001, 002, 007, 009, 049, 063, 081, 115, 117
MTC	009, 087, 094
Multitech	007, 009, 011, 087, 090, 094
NAD	038
NEC	004, 005, 006, 018, 026, 029, 045, 061, 062, 085
Nikko	088
Noblex	087
Optimus	081, 088
Optonica	021
Panasonic	024, 049, 064, 066, 067, 068, 069, 107
Perdio	009
Pentax	009, 013, 023, 058, 090
Philco	015, 016, 049
Philips	015, 021, 042, 049, 105
Pilot	088
Pioneer	005, 013, 029, 036, 037, 038, 045, 085
Portland	025, 055, 090
Proscan	063, 080
Pulsar	060
Quartz	033
Quasar	034, 035, 049
Radio Shack	001, 002, 021, 081, 087, 088, 091, 094, 097, 098, 115

Radix	088
Randex	088
RCA	007, 013, 019, 023, 058, 063, 064, 065, 073, 080, 082, 087
Realistic	009, 021, 031, 033, 049, 053, 081, 087, 088, 091, 094, 097, 098
Ricoh	055
Salora	033, 041
Samsung	007, 011, 051, 059, 070, 083, 087, 089, 113
Sanky	081
Sansui	005, 026, 029, 045, 061, 085, 114
Sanyo	032, 033, 053, 087, 091, 115, 116
SBR	042
Scott	017, 020, 086, 089, 093, 117
Sears	013, 023, 028, 031, 033, 053, 054, 088, 091, 098, 099, 115
Sentra	055
Sharp	001, 002, 021, 097
Shogun	087
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***[ ]**: Preset codes set upon shipment from the factory.

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	DVD-1200	DVD-9000	
	DVD-1500	DVM-715	
	DVD-1710	DVM-1800	
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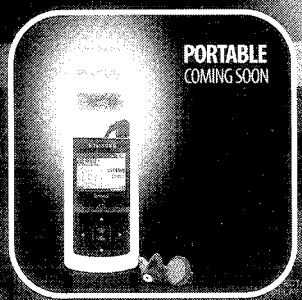

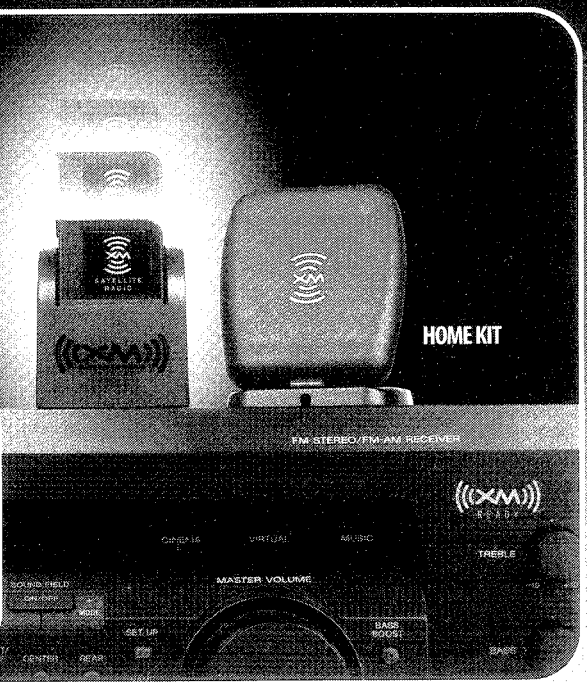

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9	the90s	Nineties Hits

Country

10	Classic Country	Classic Country
11	Nashville	'90s & Today's Country
12	Americana	Americana
13	Traditional Country	Traditional Country
14	Bluegrass	Bluegrass
15	The Village	Folk
16	New Country Hits	New Country Hits

Pop & Hits

20	Top 20	Top 20 Hits
21	Contemporary Hits	Contemporary Hits
22	Hot AC	Modern Adult Hits
23	Heart	Love Songs/Lite Pop
24	Sunny	Beautiful Music
25	Blend	Adult Contemporary Hits
27	Cinemagic	Movie Soundtracks
28	Broadway	Show Tunes
29	Pop	International Hits

Christian

31	Flipside	Christian Rock
32	Fish	Christian Pop
33	Spirit	Gospel

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40	Deep Tracks	Deep Classic Rock
41	Hard Rock	'80s Hard Rock
43	Indie/College Rock	Indie/College Rock
44	Fred	Classic Alternative
45	XMCafé	Adult Album Rock
46	The Tribute	Classic Rock
47	Alt Nation	Alternative Rock
48	Squizz	New Hard Rock
50	The Loft	Acoustic Rock
51	Jam On	Jam Bands/Progressive
52	New	New/Emerging/New
53	Fungus	Punk/Hardcore/Ska
54	Lucy	Alternative Hits

Hip-Hop & Urban

60	Soul Town	Classic Soul
61	Flow	New Soul
62	Shade 45	Adult R&B Hits
64	Backdoor	Old Skool R&B
65	Snoop Dogg's Classic Hip-Hop/Rap	Snoop Dogg's Classic Hip-Hop/Rap
66	Raw	New Uncut Hip-Hop
67	City	Urban Contemporary

Jazz & Blues

70	Real Jazz	Traditional Jazz
71	Watercolors	Smooth Jazz
72	Beyond Category	Modern Jazz
73	Pops	American Standards
74	Bluesville	Blues

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75	Hear	The Sound of Starbucks
76	Fine Tuning	Eclectic/Freeform XM-HD
77	Audio Visions	New Age

Dance

80	Disco	House/Progressive
81	bpm	Dance Hits
82	Electric	Electronica/Trance
83	Chrome	Disco/Classic Dance

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90	Reggaeton	Reggaeton/Latin Hits
92	Regional	Regional Mexican
94	Tropical	Tropical
95	Latino	Latin Jazz

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100	Planet	New & Emerging Music
101	Jamz	Reggae
102	Pop Hits	Pop Hits

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110	Classics	Traditional Classical
112	Vox	Opera/Classical Vocals
113	Pops	Classical Pops XM-HD

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141	Sports News	Sports News
142	Sports Talk	Sports Talk
143	Sports Talk	Sports Talk
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146	The PGA TOUR® Network/ Live Coverage & Golf Talk	The PGA TOUR® Network/ Live Coverage & Golf Talk
147	Deportivo	Sports en Español/ World Cup™ Soccer
152	IndyCar® Series Racing	IndyCar® Series Racing
175	MLB Home Plate℠ 24/7 MLB™ News & Talk	MLB Home Plate℠ 24/7 MLB™ News & Talk
176-189	14 Major League Baseball® Play-by-Play Channels	14 Major League Baseball® Play-by-Play Channels
190	Play-by-Play en Español	Play-by-Play en Español
191-193	ACC	ACC Football/Basketball
194-196	Pac-10	Pac-10 Football/Basketball
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204	Hockey Ice	24/7 Hockey Talk & Play-by-Play
205-209	NHL Hockey	NHL Hockey Play-by-Play

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122	CNN	CNN
123	Headline News	CNN Headline News
124	ABC News & Talk	ABC News & Talk
125	The Weather Channel	The Weather Channel
127	CNBC	CNBC
129	Bloomberg Radio	Bloomberg Radio
130	MSNBC	MSNBC
131	BBC World Service	BBC World Service
132	C-SPAN Radio	C-SPAN Radio
133	XM Public Radio	The Bob Edwards Show, PRI, APM & WBUR
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155	Women's Talk & Lifestyle	Women's Talk & Lifestyle
162	E! Entertainment	E! Entertainment
163	Books & Drama	Books & Drama
164	Radio Classics	Old Time Radio
165	Dr. Radio	Experts & Advice
166	Patriot	Conservative Talk
167	Air America	Progressive Talk
168	FOX News Talk	FOX News Talk
169	The Power	African-American Talk
170	Family Talk	Christian Talk
171	Open Road	Truckers' Channel
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150	XM Comedy	Uncensored Comedy
151	Laugh USA	Comedy
153	Laugh Factory	Uncensored Comedy

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116	Kids	Children

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Netherlands	Penhold B.V. Poppenbouwing 58, NL-4191 NZ Geldermalsen, Netherland Tel: 31-345-588 080 Fax: 31-345-588 085
New Zealand	Avalon Pacific Marketing Limited. 15c Vestey Drive, Mt Wellington, Auckland, New Zealand. PO Box 11 631 Ellerslie, Auckland, New Zealand Tel: +64-9-573-5933 Fax: +64-9-573-3720
Norway	Hi-Fi Klubben Marcus Thranes gate 4-6, 0473 Oslo, Norway Tel: +47 22 80 63 10 Fax: +47 22 80 63 29
Philippines	Lotteworld Audio Video Systems Incorporated CET Building Mezzannine Floor No. 4 Mindanao Avenue, Barangay Bahay Toro, Project 8, Quezon City, Philippines. Tel: +632-929-5334 Fax: +632-929-1343
Poland	HORN DISTRIBUTION S.A. Ulica Kurantow 34, 02-873 Warszawa Poland Tel: +48 22 331 55 33 Fax: +48 22 331 55 00
Portugal	Videoacustica Qta. Do Paizinho-Armazém 5-Estrada De Circunvalação-Apart. 3127 1303 Lisboa Codex Tel: +351 214241770 Fax: +351 214188093
Singapore	ALL (E&E) Service Center Pte Ltd. Machtech Industrial Building, #06-04, No.2, Kallang Pudding Road, Singapore 349307 Tel: 6747-8274 Fax: 6748-9007
Slovakia	BIS AUDIO s.r.o. Dobronivská cesta 1642/6 960 01 Zvolen Tel:045-5400 703 Fax:045-5400 704
South Africa	Mandarin Distributors S.A. 10 Thora Crescent, Wynberg Ext.3 Sandton, P.O.Box 5137, Johannesburg Republic of South Africa Tel: 27-11-444-8445 Fax: 27-11-444-8363
Spain	Gaplasa S.A.AV. Ing. Conde de Torroja, 25, 28022 Madrid Tel: 91-746-00-45 Fax: 91-329-44-57
Sweden	Hi-Fi Klubben Göteborg Skänegatan 25, 41252 Göteborg Tel:031 33 51010 Fax:031 33 51019
Switzerland	KOENIG APPARATE AG, Abteilung Elektronik. Eggbühlstrasse 28, CH-8052 Zürich, Switzerland Tel: 01-306-1626 Fax: 01-306-1690
Taiwan R.O.C.	KOLIN-DENON Entertainment INC. 5F-3, No. 14, Shiwei Street, Sanchung City, Taipei Hsien, 241 Taiwan, R.O.C. 歌林天龍音樂事業股份有限公司 台北縣三重市溪尾街14號5F之3 電話:(02)8287-2618 傳真:(02)8287-1384 Realise Tech-Service Co., Ltd. 2F, No. 14, Shiwei Street, Sanchung City, Taipei Hsien, 241 Taiwan, R.O.C. 瑞林科技服務股份有限公司 台北縣三重市溪尾街14號2F 電話(代表號):(02)8287-6668 傳真:(02)8287-6272
Thailand	Mahajak Development Co., Ltd. 46 Mahajak Building, Sukhumvit Soi 3 (Nana-Nua) Klongtoey, Wattana, Bangkok Thailand. 10110 Tel: 66-2-256-0020 Fax: 66-2-253-1696
Turkey	Ertekin electronik tic. ve san. a.s. Galipdede Caddesi No.: 113 Kuledibi-Karaköy / Istanbul, Turkey Tel: +90(212)293-9515 Fax: +90(212)249-3512
U.A.E.	V.V. & SONS L.L.C. Street No-11/B, Road NO-128, Shed No-39 Al Khabisi, Deira, Dubai, U.A.E Tel: +971-4-266-2435, 268-4575 Fax: +971-4-266-2052
United Kingdom & Eire	DENON UK A division of D&M Audiovisual Ltd. Moorbridge House, Padbury Oaks, 579 Bath Road, Longford, Middlesex, UB7 0EH, United Kingdom Tel: +44(0)1753-680568 Fax: +44(0)1753-689697
U.S.A.	DENON ELECTRONICS (USA), LLC (a D&M Holdings Company) 19C Chapin Road, Suite 205, Pine Brook, NJ 07058-9385 Tel: 973-396-0810 Fax: 973-396-7448 1100 Maplewood Drive, Itasca, IL 60143-3205 Tel: 630-741-0660 Fax: 630-741-0301
Vietnam	Anh Duy Company., Ltd. 148/8D Xo Viet Nghe Tinh St, ward 25, Binh Thanh Dict Ho Chi Minh City, Vietnam Tel: +84 8 898 3424 Fax: +84 8 898 3425

* If there is no service center in your local area, please contact one of our overseas service centers, listed above, for follow-up service consultation.
* Ist kein Service-Center in Ihrer Nähe, setzen Sie sich bitte miteinem der hier aufgelisteten Adressen in Verbindung.
* Si il n'y a pas destation technique proche de chez vous, veuillez contacter nos l' un de noscentres techniques, listés ci dessous, pour toutes demandes techniques.
* Als er geen servicecenter bij uin de buurt is, neem dan contact op een een van onze bovengenoemdeservicecenters voor ondersteuning.
* Si no hay un servicio técnico en su zona, por favor contacte con uno de los servicios técnicos centrales, indicados abajo, para realizar un seguimiento de su consult.
* Om det inte finns någon auktoriserad Denon-verkstad där du bor, kontakta en av våra internationella servicecentra (se ovan).
* Se non ci sono dei centri assistenza autorizzati nella vostra zona, potete fare riferimento agli altri centri assistenza autorizzati, vedi elenco sopra, per qualsiasi consultazione tecnica.
* Caso não exista um centro de assistência técnica na sua área, consulte um dos centros acima apresentados
* 如若當地並無服務中心,請據上表所列本公司海外服務中心查詢售後服務事宜。
* 若当地无服务中心,请联系上述所列我们的海外服务中心,以便跟踪服务咨询。

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DENON
www.denon.com

Denon Brand Company, D&M Holdings Inc.
00D 515 0921 607 GI 511

DENON®

LIMITED WARRANTY

(USA / CANADA)

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USA

DENON ELECTRONICS (USA), LLC
(a D&M Holdings Company)

19C Chapin Road, Suite 205
Pine Brook, NJ 07058-9385
(973) 396-0810
(973) 396-7448 Fax

1100 Maplewood Drive
Itasca, IL 60143-3205
(630) 741-0660
(630) 741-0301 Fax

DENON REGIONAL SUPER SERVICE CENTERS (Repair only-No parts orders please)

PYRAMID AUDIO
305 E. Braker Lane
Austin, TX 78753-2746
(512) 458-8292
(512) 453-4542 Fax

UNITED RADIO SERVICE
5717 Enterprise Parkway
E. Syracuse, NY 13057-2905
(800) 634-8606
(315) 446-8505 Fax

AUDIO SERVICES
544 Central Dr., Suite 101
Virginia Beach, VA 23454-5245
(757) 498-8277
(757) 498-9554 Fax

INNER SOUND
1416 S.E. Morrison Street
Portland, OR 97214-2646
(503) 238-1955
(503) 238-1787 Fax

NORMAN'S ELECTRONICS
3653 Clairmont Road
Atlanta, GA 30341-4907
(770) 451-5057
(770) 455-8337 Fax

GOLD CROWN ELECTRONICS
Victoria Business Park
129 E. Savarona Way
Carson, CA 90746-1406
(310) 538-8282
(310) 538-8281 Fax

CANADA

D&M CANADA INC.
5-505 Apple Creek Boulevard
Markham Ontario, L3R 5B1
(905) 475-4085
(905) 475-4159 Fax

WARRANTY (HOME)
00D 515 0944 422

This warranty will be honored only in the **U.S.A**

DENON®

LIMITED WARRANTY

Length of Non-Transferable Warranty

This warranty on your DENON product which is distributed and warranted by DENON ELECTRONICS (USA), LLC remains in effect for the following periods from the date of the original consumer purchase from an AUTHORIZED DENON ELECTRONICS (USA), LLC DEALER.

Product Category

A / V Controller, A / V Receiver, AM / FM Receiver			AVC, AVR, DRA	2	YEAR(S)
DVD Receiver, DVD Home Theater System			ADV, S-Series	1	
Digital Surround Decoder			AVD	3	
Pre-Amplifier, Digital Pre-Amplifier Power-Amplifier, Head Amplifier			PRA, AVP, DAP, POA, HA	3	
Tuner, Integrated Amplifier			TU, PMA	3	
CD Player, DVD Player			DCD, DCM, DP, DA, DVD, DVM	1	
Tape Recorder, CD Recorder, MD Recorder			DRM, DRR, DRS, DRW, CDR, CDRW, DMD	1	
System Audio			D-(UPA, UTU, UDCM, UDR, USC, USR, UCD, UDRA) D-A, D-F, D-G, D-M, CDR-M, DRR-M	1	
Turntable	1	Autolift / Manual	DP-L, DP-M	4	
	2	Full Automatic	DP-F	2	
Speaker			SC	1	
Sub-woofer			DSW	2	
Network Multimedia Server / Client (Hard Disc Only)	1	Excluded Hard Disk Drive Unit	NS	3	
	2	Hard Disk Drive Unit	–	1	
Microphone			DM-S	2	
Control Dock for iPod®			ASD	1	
Cartridge			DL	90	DAYS
Remote Controller			RC	90	
Headphone			AH-D	90	

iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

What is Covered

Except as specified below, this Warranty covers all defects in material and workmanship in this product occurring during the above warranty periods. The following are not covered by the Warranty: (1) Any product which is not distributed in the U.S.A. by DENON ELECTRONICS (USA), LLC. (2) Any product which is not purchased in the U.S.A. from an authorized DENON dealer, unless the product is purchased through the U.S.A. Military Exchange Service where the Warranty will be One (1) year for all products listed above except in the case of Cartridges, Accessories, Remote Controller and Headphone which will remain at 90 days. (Note: AUTHORIZED DENON DEALERS can be identified by DENON AUTHORIZED DEALER sticker displayed in the stores. If you are uncertain as to whether a dealer is a DENON AUTHORIZED DEALER, please contact DENON as listed below). (3) Any product on which the serial number has been defaced, modified or removed. (4) Damaged deterioration or malfunction resulting from: a) Accident, act of nature, abuse, misuse, neglect, unauthorized product repair, opening of or modification or failure to follow instructions supplied with the product. b) Repair or attempted repair by anyone not authorized by DENON. c) Any shipment of the product (claim must be presented to carrier). (5) Items subject to wear from normal usage (tape heads, cartridges, stylus, battery, etc.). (6) Periodic check-ups which do not disclose any defect. (7) Use of the product outside the U.S.A. (8) Damaged magnetic tape or CD/DVD discs. (9) Use in industrial, commercial, and/or professional applications. (10) Any installation or removal charges resulting from product failure.

What We Will Pay For

If during the applicable warranty period from the date of original consumer purchase your DENON product is found to be defective by DENON, DENON will repair, or at its option, replace with new, used or equivalent model, such defective product without charge for parts or labor.

How to Obtain Warranty Performance

If your unit ever needs service, it may be taken or shipped to any authorized DENON service station or DENON ELECTRONICS (if you are uncertain as to whether a service station is DENON authorized, please contact DENON as listed below.) In all other cases, the following procedures apply whenever your unit must be transported for warranty service;

a. You are responsible for transporting your unit or arranging for its transportation.
b. If shipment of your unit is required;
You must pay the initial shipping charges, but we will pay the return shipping charges if the repairs are covered by the Warranty.
c. WHEN RETURNING YOUR UNIT FOR WARRANTY SERVICE, A COPY OF THE ORIGINAL SALES SLIP MUST BE ATTACHED.
d. You should include the following: your name, address, daytime telephone number, model and serial number of the product and a description of the problem. In the case of a CD or DVD Player, please enclose ONE (1) disc that the unit has failed with for test reasons. It will be returned with the unit.

THIS WARRANTY IS VALID IN THE U.S.A. ONLY.

If your product does not require service, but you have questions regarding its operation, please contact our Technical Services Department as listed below.

THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

OUR LIABILITY IS LIMITED TO THE REPAIR OR REPLACEMENT, AT OUR OPTION, OF ANY DEFECTIVE PRODUCT AND SHALL IN NO EVENT INCLUDE INCIDENTAL OR CONSEQUENTIAL COMMERCIAL OR PROPERTY DAMAGES OF ANY KIND. WE ARE NOT RESPONSIBLE FOR PRODUCTS LOST, STOLEN AND/OR DAMAGED DURING SHIPPING.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights, but you may also have other rights which vary from state to state. This Warranty may not be altered other than in a writing signed by an officer of Denon Electronics USA, LLC.

DENON ELECTRONICS (USA), LLC
(a D&M Holdings Company)
19C Chapin Road, Suite 205
Pine Brook, NJ 07058-9385
Product Information: Visit our website (www.usa.denon.com) or Call (973) 396-0810
Warranty Repair Information: Call (630) 741-0660